

A ♦ S ♦ M ♦ E
YEAR BOOK
1910

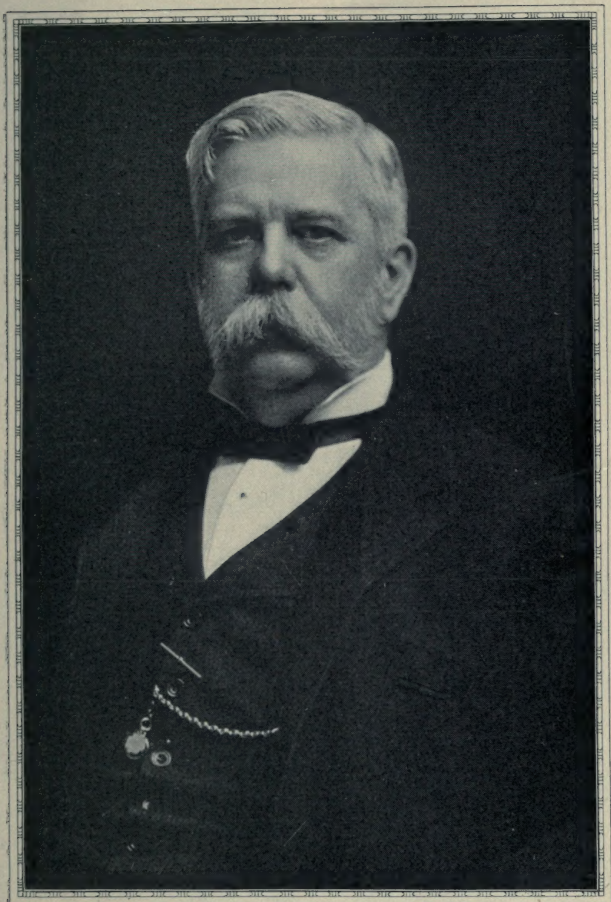


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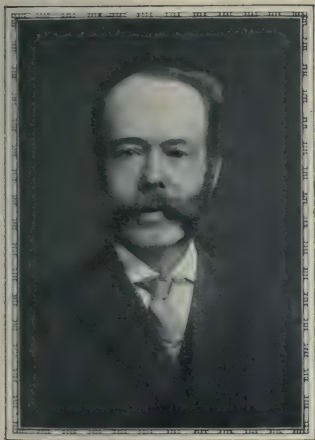


ENGINEERING SOCIETIES BUILDING
Headquarters of the Society





GEORGE WESTINGHOUSE
President, Am. Soc. M. E.



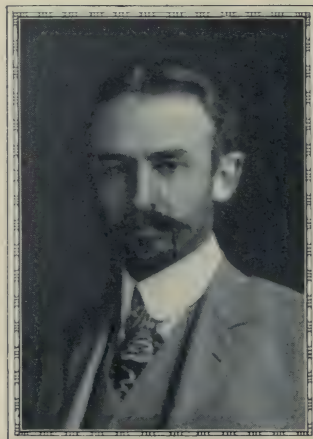
GEO. M. BOND
Vice-President



F. M. WHYTE
Vice-President



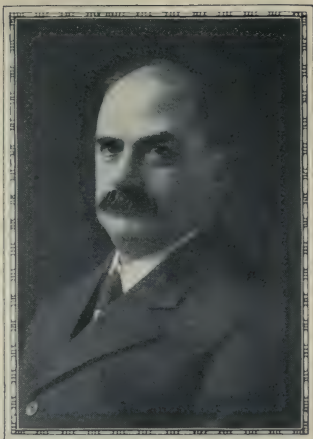
R. C. CARPENTER
Vice-President



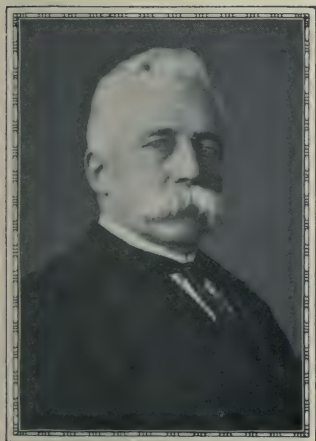
CHAS. W. BAKER
Vice-President



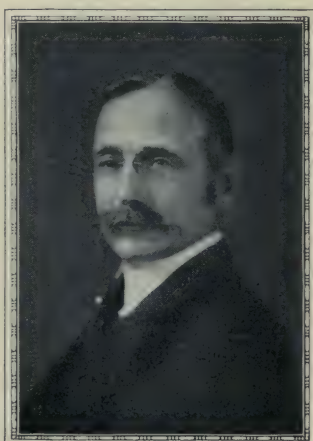
W. F. M. GOSS
Vice-President



WM. L. ABBOTT
Manager



E. D. MEIER
Vice-President



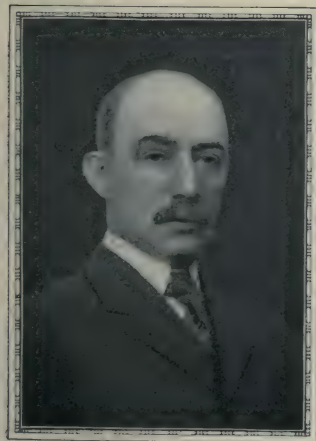
ALEX. C. HUMPHREYS
Manager



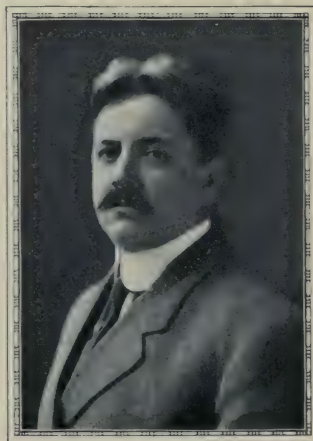
HENRY G. STOTT
Manager



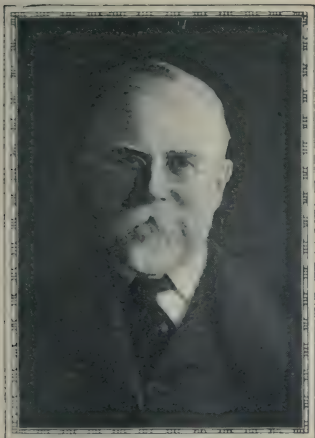
I. E. MOULTROP
Manager



H. L. GANTT
Manager



W. J. SANDO
Manager



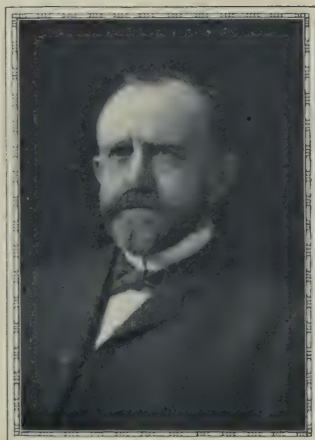
J. SELLERS BANCROFT
Manager



H. G. REIST
Manager



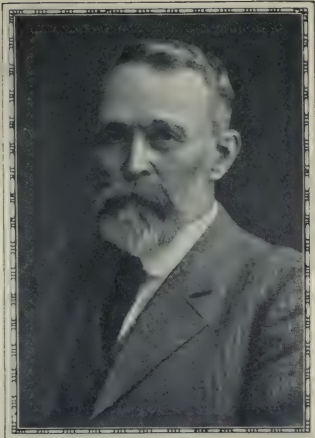
JAMES HARTNESS
Manager



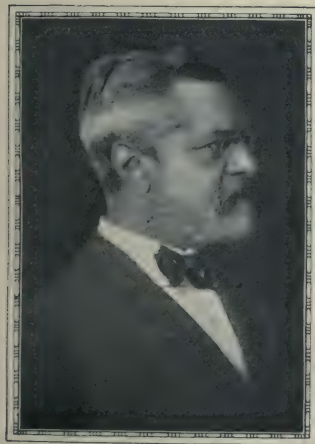
JOHN R. FREEMAN
Past-President



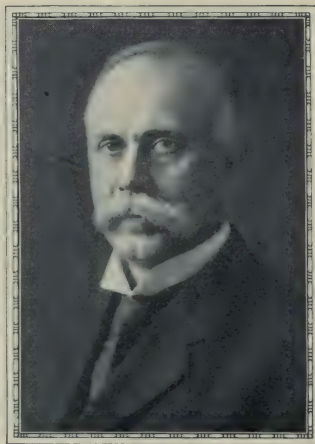
FREDERICK W. TAYLOR
Past-President



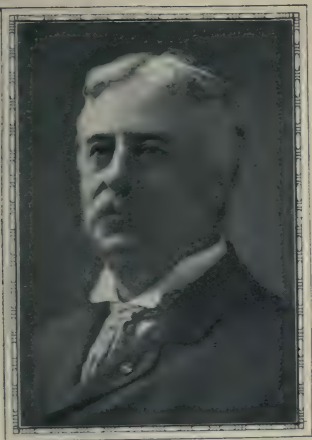
M. L. HOLMAN
Past-President



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Honorary Secretary



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WILLIAM H. WILEY
Treasurer



ARTHUR M. WAITT
Chairman Finance Committee



CALVIN W. RICE
Secretary

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

YEAR BOOK

CONTAINING LISTS OF
MEMBERS ARRANGED ALPHABETICALLY
AND GEOGRAPHICALLY

CORRECTED TO JANUARY 5, 1910



102049
27/5/10

NEW YORK
29 WEST 39th STREET
FEBRUARY, 1910

Organised 1880

Incorporated 1881

THE UNIVERSITY OF CHICAGO

YEAR BOOK



1924-25
1925

CHICAGO, ILL.

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DIRECTIONS FOR USING THIS BOOK

For business addresses of members residing in any particular city or town, consult the Geographical List, which is arranged alphabetically by countries, States, cities and names of members; both business and home address will be found in the Alphabetical List. Each of these lists contains the names of members of all grades, including Honorary Members, Life Members, Members, Juniors and Associates. Names of affiliates of the gas power section and of student branches will be found in separate lists.

OFFICERS AND COUNCIL

1910

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Vice-Presidents

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R. C. CARPENTER
F. M. WHYTE

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J. SELLERS BANCROFT
JAMES HARTNESS

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FREDERICK W. TAYLOR

JESSE M. SMITH

F. R. HUTTON
M. L. HOLMAN

Treasurer, WILLIAM H. WILEY

Chairman of the Finance Committee, ARTHUR M. WAITT

Honorary Secretary, F. R. HUTTON

Secretary, CALVIN W. RICE

EXECUTIVE COMMITTEE OF THE COUNCIL

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CHAS. WHITING BAKER, *Vice-Chairman*

F. R. HUTTON

H. L. GANTT

F. M. WHYTE

STANDING COMMITTEES

Finance

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EDWARD F. SCHNUCK GEO. J. ROBERTS

WALDO H. MARSHALL

House

WILLIAM CARTER DICKERMAN, *Chairman*

BERNARD V. SWENSON

FRANCIS BLOSSOM

EDWARD VAN WINKLE

H. R. COBLEIGH

Library

JOHN W. LIEB, JR., *Chairman*

AMBROSE SWASEY

LEONARD WALDO

CHAS. L. CLARKE

ALFRED NOBLE

Meetings

WILLIS E. HALL, *Chairman*

WM. H. BRYAN

L. R. POMEROY

CHAS. E. LUCKE

H. DE B. PARSONS

Membership

CHARLES R. RICHARDS, *Chairman*

FRANCIS H. STILLMAN

GEORGE J. FORAN

HOSEA WEBSTER

THEO. STEBBINS

Publication

D. S. JACOBUS, *Chairman*

H. F. J. PORTER

H. W. SPANGLER

GEO. I. ROCKWOOD

GEO. M. BASFORD

Research

W. F. M. GOSS, *Chairman*

R. C. CARPENTER

R. H. RICE

RALPH D. MERSHON

JAS. CHRISTIE

SPECIAL COMMITTEES

1910

On a Standard Tonnage Basis for Refrigeration

D. S. JACOBUS
A. P. TRAUTWEIN.

G. T. VOORHEES
PHILIP DE C. BALL

E. F. MILLER

On Society History

JOHN E. SWEET

H. H. SUPLEE

CHAS. WALLACE HUNT

On Constitution and By-Laws

CHAS. WALLACE HUNT, *Chairman*
G. M. BASFORD

F. R. HUTTON
D. S. JACOBUS

JESSE M. SMITH

On Conservation of Natural Resources

GEO. F. SWAIN, *Chairman*
CHARLES WHITING BAKER

L. D. BURLINGAME
M. L. HOLMAN

CALVIN W. RICE

On International Standard for Pipe Threads

E. M. HERR, *Chairman*
WILLIAM J. BALDWIN

GEO. M. BOND
STANLEY G. FLAGG, JR.

On Standards for Involute Gears

WILFRED LEWIS, *Chairman*
HUGO BILGRAM

E. R. FELLOWS
C. R. GABRIEL

GAETANO LANZA

On Power Tests

D. S. JACOBUS, *Chairman*
EDWARD T. ADAMS
GEORGE H. BARRUS
L. P. BRECKENRIDGE

WILLIAM KENT
CHARLES E. LUCKE
EDWARD F. MILLER
ARTHUR WEST

ALBERT C. WOOD

On Student Branches

F. R. HUTTON, *Honorary Secretary*

On Meetings of the Society in Boston

IRA N. HOLLIS, *Chairman*
EDWARD F. MILLER

I. E. MOULTROP, *Secretary*
J. H. LIBBEY

CHARLES T. MAIN

On Meetings of the Society in St. Louis

WM. H. BRYAN, *Chairman*

ERNEST L. OHLE, *Secretary*

M. L. HOLMAN

SOCIETY REPRESENTATIVES

1910

On John Fritz Medal

AMBROSE SWASEY
F. R. HUTTON

CHAS. WALLACE HUNT
HENRY R. TOWNE

On Board of Trustees United Engineering Societies Building

F. R. HUTTON

JESSE M. SMITH

F. J. MILLER

On Library Conference Committee

J. W. LIEB, JR.

Chairman of the Library Committee, Am. Soc. M. E.

On National Fire Protection Association

JOHN R. FREEMAN

IRA H. WOOLSON

On Joint Committee on Engineering Education

ALEX. C. HUMPHREYS

F. W. TAYLOR

On Government Advisory Board on Fuels and Structural Materials

GEO. H. BARRUS

W. F. M. GOSS

P. W. GATES

On Advisory Board National Conservation Commission

GEO. F. SWAIN

CHAS. T. MAIN

JOHN R. FREEMAN

On Council of American Association for the Advancement of Science

ALEX. C. HUMPHREYS

FRED J. MILLER

Long Distance Telephone
Bryant 4600

Cable Address
Dynamic, New York

The American Society of Mechanical Engineers

29 West 29th Street, New York

CALENDAR

SPRING MEETING, Atlantic City, May 31-June 3, 1910.

MEETING IN ENGLAND with the Institution of Mechanical Engineers
Birmingham and London, July 26-29, 1910.

ANNUAL MEETING, New York, December 6-9, 1910.

MONTHLY MEETINGS, New York, second Tuesdays, October to May, 8.15
p. m. Meetings of the Society will also be held in other cities, on dates to be
announced from month to month.

THE ROOMS OF THE SOCIETY on the eleventh floor of the Engineering
Societies Building are open, and visitors are welcome, from nine to five, except
Sundays and holidays, throughout the year. These holidays comprise New
Year's; Lincoln's Birthday, February 12; Washington's Birthday, February 22;
Memorial Day, May 30; Independence Day; Labor Day; Columbus Day, October
12; Election Day; Thanksgiving Day and Christmas.

THE LIBRARY OF THE ENGINEERING SOCIETIES, containing the libraries
of the American Institute of Mining Engineers, The American Society of Mechan-
ical Engineers, and the American Institute of Electrical Engineers, on the thir-
teenth floor of the Engineering Societies Building, is open, except on Christmas
and Christmas eve, New Year's and New Year's eve, Thanksgiving, and Inde-
pendence Day, from 9 a. m. to 9 p. m., and to 6 p. m. in July and August.

GENERAL INFORMATION

HEADQUARTERS

The headquarters of The American Society of Mechanical Engineers are in the Engineering Societies Building, 29 West Thirty-ninth Street, New York, which was given by Andrew Carnegie, Hon. Mem. Am. Soc. M. E., as a home for the American Institute of Mining Engineers, The American Society of Mechanical Engineers and the American Institute of Electrical Engineers. Other kindred societies have offices in the building and share in the privileges of the auditoriums for meeting purposes. The location is about midway between Fifth Avenue and Broadway, a short distance only from the Grand Central Station and the new Pennsylvania Station, and from subway, surface and elevated lines, the new public library, the theatre district in the vicinity of Times Square, and the shopping district at Thirty-fourth Street.

The Engineering Societies Building is 13 stories high, has a frontage of 115 feet and is 90 feet deep. On the first floor above the street is an auditorium seating 1,000 persons, and on the two floors above are six auditoriums seating from 100 to 500 persons each. The library of the Society is on the two top floors. Adjoining on Fortieth Street is the Engineers' Club.

The rooms of the Society occupy the entire eleventh floor of the Engineering Societies Building and are homelike and convenient as a rendezvous for the members and their friends. All members are asked to make their headquarters here when in New York. Rooms for private consultation are also available.

MEMBERSHIP

The membership of the Society consists of Honorary Members, Members, Associates and Juniors, the qualifications for each grade being stated in the constitution published at the back of this volume. The initiation fee for Members and Associates is \$25, and for Juniors \$15. The annual dues are \$15 for Members and Associates; and \$10 for Juniors for the first six years, \$15 thereafter. Provision is also made for Affiliates, referred to later under "Gas Power Section" and "Student Branches."

HOW TO BECOME A MEMBER

Application for membership should be made on a standard blank form, copy of which may be procured at the office of the Secretary. In the case of application for Member or Associate grade, five references are required; in the case of Junior membership, three. An application must be submitted not later than September 1 for action at the annual meeting, and not later than February 1 for action at the spring meeting.

GENERAL INFORMATION

The approved method of submitting applications is for the applicant to fill in personally the data relating to his professional service, and before sending to the Society to submit it to the members to whom he is to refer. Endorsers are required to have personal knowledge of the professional service of the applicant and permission to use names for references must be secured in each instance. Juniors may not serve as endorsers.

When a member desires to present to the Society the name of an eligible candidate, he, acting for the candidate, must in effect carry out the provisions of the previous paragraph.

The application when complete is sent to the Secretary. The Secretary will thereupon communicate with the endorsers and submit to the Membership Committee the application and the replies from the endorsers. After having been scrutinized by the committee, the application is then referred to the Council, with the recommendation of the committee. Upon favorable action by the Council the name of the applicant will be ordered printed on the ballot and submitted to the voting membership for their action. Notice of election will be sent to the candidate in due course.

MEETINGS

The Society regularly holds two general meetings or conventions: The annual meeting in New York, beginning with the first Tuesday in December, and the spring meeting, held in some other city, usually in May or June.

Monthly meetings are held in New York on the evenings of the second Tuesdays in October, November, January, February, March and April. The Constitution provides for the holding of other meetings upon written request to the Council from fifty members. Under this provision monthly meetings have been held during the past year in Boston and St. Louis. Such meetings are conducted as regular meetings of the Society, not as meetings of a local section. The papers presented are subject to the approval of the Meetings Committee, and have the same advantages of publication in The Journal and Transactions as the papers of the Annual and Spring Meetings.

GOVERNMENT

The Society is governed by a Council consisting of the executive officers, six vice-presidents, nine managers, the five junior past presidents and the chairman of the finance committee. The various activities of the Society are directed by standing committees of five members each. The members are appointed in rotation by the president for five-year periods.

PROFESSIONAL COMMITTEES

Besides the standing committees special committees are appointed to investigate and report upon questions of engineering

GENERAL INFORMATION

interest referred to them. Thus far reports have been issued as follows, available either in pamphlet form, or in a single volume the price of which is \$2.50 to members and \$5 to non-members:

Natural Gas for Industrial Purposes; Standard Pipe and Pipe Threads; Standard Method of Conducting Duty Trials of Pumping Engines; Standard Method of Conducting Locomotive Tests; Standard Thickness Gage for Metals; Standard Tests and Methods of Testing Materials; Standard Flanges; Standard Method of Conducting Steam Boiler Trials; Standardization of Engines and Dynamos; Appendix to Report on Standardization of Engines and Dynamos; Standard Pipe Unions; Supplementary Report on Standard Pipe Unions; Metric System; Standard Method of Testing Engines; Specifications for Boiler Plate, Rivet Steel, etc.; Tests of Locomotives at Louisiana Exposition; Standard Proportions for Machine Screws; Condensed Report on Standard Proportions for Machine Screws.

PUBLICATIONS

The Journal is the monthly publication of the Society, in which are printed in advance the papers to be presented at meetings, discussions upon papers, reports and notices of Society meetings, and other matters of Society interest as well as announcements and reports of meetings of other societies.

Besides *The Journal* an annual volume of *Transactions* is published containing the papers of permanent interest selected from those previously published in *The Journal*, in revised and corrected form, together with the proceedings of the Society for that year.

The Year Book, issued in February of each year, contains two lists of the members arranged alphabetically and geographically.

The *Journal* and *Transactions* are sent to all members without extra charge. The subscription price of *The Journal* to members, libraries and colleges is \$5 per year, and to non-members, \$7.50; single copies 50 cents to members, and \$1 to non-members. *Transactions* bound in half morocco costs \$11 per volume, and in paper \$10 per volume, with half-rates to members, libraries and colleges. *The Year Book* is distributed annually to the entire membership and to others requesting it, without charge.

Papers for presentation at a meeting are published in advance in pamphlet form for the convenience of those desiring to discuss them, and for distribution at the meeting. Reprints of papers and discussions appearing in *Transactions* are also issued. The cost of these advance papers and reprints is 10 cents per sixteen pages, with half-rates to members. Special prices are made when papers are ordered in quantities.

PROFESSIONAL PAPERS

Papers and discussions of engineering interest are invited by the Meetings Committee, whether from members or non-members.

GENERAL INFORMATION

All papers are subject to approval and editorial supervision by the Meetings Committee. They should contain engineering data of value to the profession, arranged for convenient reference. Matter readily accessible elsewhere, or of a speculative character, or which advocates special interests, is not available. To submit a paper it is necessary simply to send it in completed form to the Secretary.

THE LIBRARY

The Joint Library of the Engineering Societies, which contains the individual libraries of The American Society of Mechanical Engineers, the American Institute of Mining Engineers, and the American Institute of Electrical Engineers, located on the two upper floors of the Engineering Societies Building, constitutes one of its greatest elements of usefulness. It is maintained as a free public engineering library and contains over 50,000 volumes, one of the finest collections of engineering and scientific publications in America. About 500 foreign and domestic technical periodicals are received as well as the proceedings of the various engineering societies of the world.

The library is open, except on Christmas, New Year's, Thanksgiving and Independence days, from 9 a. m. to 9 p. m., with librarians in attendance. Reading-room facilities are offered to the public at large, and full privileges can be secured by members of the founder societies upon presentation of a personal, non-transferable card issued by the Secretary of his society, or by non-members who are officially introduced by one of the Secretaries.

GAS POWER SECTION

The Council has taken action permitting the formation of professional sections, and a Gas Power Section has been organized. Members of the Gas Power Section, when not members of the Society, are designated as affiliates. Regular members of the Society may become members of the Gas Power Section by enrolling without payment of additional dues. To become an affiliate, an application blank, to be obtained from the office of the Secretary of the Society or of the section, must be filled in with the names of at least three endorsers who are either members, affiliates or persons of prominence, who will vouch for the standing of the applicant, and submitted to the Membership Committee of the Gas Power Section. The annual dues are \$5 and entitle the affiliate to receive The Journal of the Society, containing the proceedings of meetings, both of the Society and of the Gas Power Section.

STUDENT BRANCHES

The Council has recognized the requests of organizations of students in engineering schools to associate themselves with the

GENERAL INFORMATION

Society as Student Branches, and seventeen have made this affiliation. Each branch has an independent organization under its own by-laws, subject only to limitations set by the Council. To form such a section, a request may be presented in writing to the Council, signed by the dean of the school or college, and by a member of the Society who is also a member of the faculty. Blanks are obtainable from the Secretary. The annual dues of \$2 entitle all such affiliates to receive The Journal.

INSIGNIA

The seal of the Society, which appears on the cover of the Year Book, is based on the saying attributed to Archimedes, "Give me where I may stand and I will move the world."

Two forms of badges are issued to members, bearing the "good luck" emblem of a conventional clover leaf on which are the Society's initials. The badge for Honorary Members, Members and Associates is in dark blue enamel, with letters in bright gold. The Juniors' badge is of the same design, but with a crimson background.

JOHN FRITZ MEDAL

The John Fritz Medal, established in 1902 by professional associates and friends on the eightieth birthday of John Fritz, as a means of perpetuating the memory of his achievements in industrial progress, is awarded annually by the four national engineering societies—the American Society of Civil Engineers, the American Institute of Mining Engineers, The American Society of Mechanical Engineers, and the American Institute of Electrical Engineers—for notable scientific or industrial achievement, irrespective of nationality or sex, in accordance with the decision of a board composed of four members from each of these societies.

The medal was awarded in 1905 to Lord Kelvin for his work in the development of the telegraph, and other scientific accomplishments; in 1906 to George Westinghouse, Hon. Mem. Am. Soc. M. E., for the invention and development of the air brake; in 1907 to Alexander Graham Bell for the invention and development of the telephone; and in 1909 to Charles T. Porter, Hon. Mem. Am. Soc. M. E., for his part in the origination and development of the high-speed steam engine.

HONORARY MEMBERS IN PERPETUITY

ALEXANDER LYMAN HOLLEY, Deceased Founder of the Society.

HENRY ROSSITER WORTHINGTON, Deceased Founder of the Society.

HONORARY MEMBERS

(In order of dates of election)

Dwelshauvers-Dery, V.	1886	Fritz, John	1900
Eiffel, Gustave.....	1889	White, Sir Wm. H.	1900
Porter, Charles T.....	1890	Fox, Sir Douglas.....	1900
Léauté, Henri	1891	Sweet, John E.....	1904
Isherwood, Benj. Franklin..	1894	Edison, Thomas Alva.....	1904
Arrol, Sir Wm.....	1895	Carnegie, Andrew	1907
Westinghouse, Geo.....	1897	Brashear, John A.....	1908
Unwin, Wm. Cawthorne....	1898	Melville, Geo. W.....	1910

ALPHABETICAL LIST OF MEMBERSHIP ALL GRADES

- ABBOTT, Chas. Carroll (1905), Mgr., Triumph Voting Mch. Co., and *for mail*, 237 Second St., Pittsfield, Mass.
- ABBOTT, Frederick Bancroft (1904), 490 Seventh St., Brooklyn, N. Y.
- ABBOTT, William L. (1891), Manager, 1907-1910; Ch. Operating Engr., Commonwealth Edison Co., 139 Adams St., and *for mail*, 4616 Beacon St., Chicago, Ill.
- ABELL, Harry Clinton (1900; 1902), Mech. Engr., care Emerson, Mc-Millin & Co., 40 Wall St., New York, N. Y.
- ABERCROMBIE, James Henderson (1901), Mech. Supt., Clark Thread Co., Clark and Ogden Sts., and *for mail*, 97 Heller Parkway, Newark, N. J.
- ABORN, George P. (1889; 1892), Mgr., Blake & Knowles Steam Pump Wks., East Cambridge, and *for mail*, 55 Burroughs St., Jamaica Plain, Mass.
- ABRAMS, Herbert T. (1901), Mgr., Pump Dept., Ingersoll-Rand Co., 11 Broadway, New York, N. Y., and *for mail*, 160 Cleveland St., Orange, N. J.
- ACKERMAN, Wm. S. (1891; 1895; 1899), Cons. Engr., 704 Colt Bldg., Paterson, N. J.
- ADAMS, Edward T. (1899), Mgr. and Ch. Engr., Gas and Mill Eng. Dept., Allis-Chalmers Co., Milwaukee, Wis.
- ADAMS, Edward M. (1902), Ch. Engr., Quaker Oats Co., and *for mail*, 83 Charlotte St., Akron, O.
- ADAMS, Henry (1899), Cons. Engr., 855-859 Calvert Bldg., and 728 Reservoir St., Baltimore, Md.
- ADAMS, Julius Leroy (1900), Genl. Supt. of Rys. and Ferries, Norfolk & Portsmouth Traction Co., Norfolk, Va.
- ADAMS, Kilburn E. (Junior, 1908), Mech. Engr., Boston & Albany R. R., Rm. 372, South Sta., Boston, and *for mail*, 123 Oxford St., North Cambridge, Mass.
- ADAMS, Thomas D. (Junior, 1906), Werner & Pfleiderer, and *for mail*, 619 Emerson St., Saginaw, Mich.
- ADAMS, Walter H. (Junior, 1908), Prof. Mech. Engrg., Imperial Pei-Yang Univ., Tiensin, China.
- ADAMS, Walter H. (Junior, 1908), Prof. Mech. Engrg., Imperial Pei-Yang Univ., Tientsin, China.
- ADAMSON, Cecil F. (Junior, 1906), Cons. Mech. and Elec. Engr., Hamilton Bldg., Akron, O.
- ADAMSON, Daniel (1901), Jos. Adamson & Co., Hyde, Cheshire, and *for mail*, 211 Two Trees Lane, Denton, Lancashire, Eng.

NOTE.—The date after each name is that at which membership in the Society began. Where there are two dates, election to the present grade of membership from another grade took place at the later date.

Where two addresses are given, the first is the business address. The word "also" is prefixed to permanent addresses, and the words "and *for mail*" are used when the preferred address for mail is not the first address.

- ADLER, Alphonse A. (Junior, 1907), Mech. Draftsman, Pa. Tunnel & Terminal R. R. Co., 8-10 Bridge St., New York, and *for mail*, 85 Ashland Pl., Brooklyn, N. Y.
- AFFLECK, H. Watson (Associate, 1906), Pres., Keystone Engrg. Co., 719-721 Noble St., and *for mail*, 4451 N. 20th St., Philadelphia, Pa.
- AHARA, Edwin Hugh (1906), Genl. Supt., Dodge Mfg. Co., Mishawaka, Ind.
- AHLQUIST, Harold (1909), Designing Engr., Solvay Process Co., 10 Brattle Rd., Syracuse, N. Y.
- AHRENS, Geo. Fred (1897), Pres., Ahrens Fire Engine Co., Alfred and Cook Sts., and *for mail*, 359 Thrall Ave., Cincinnati, O.
- AHRNKE, H. P. (Junior, 1902), Pa. Tunnel & Terminal R. R. Co., office Ch. Engr. of Elec. Traction, 8-10 Bridge St., New York, N. Y.
- AIKEN, Charles W. (1903), Secy. and Treas., Houchin-Aiken Co., Engrs. and Machinists, 35 53d St., and *for mail*, 714 E. 19th St., Brooklyn, N. Y.
- AKERLIND, G. A. (1909), Cons. Engr., 664 Monadnock Bldg., Chicago, Ill.
- ALBERGER, Louis R. (1889), Pres., Alberger Condenser Co., 95 Liberty St., New York, N. Y.
- ALBERT, Otto (1903), Ch. Draftsman, Shaw Elec. Crane Co., and *for mail*, 51 Sanford St., Muskegon, Mich.
- ALBRECHT, Otto (1884), Mech. Engr., Tindel Morris Co., Eddystone, Delaware Co., and 1405 N. 15th St., Philadelphia, Pa.
- ALBREE, Chester B. (1886; 1897), Pres. and Ch. Engr., Chester B. Albree Iron Wks. Co., 1115-1131 Market St., and 1116 Western Ave., Allegheny, Pa.
- ALBRIGHT, H. Fleetwood (1903), Genl. Supt., Western Elec. Co., 48th Ave. and W. 24th St., Hawthorne, Ill.
- ALDCORN, Thomas (Associate, 1903), Genl. Eastern Sales Mgr., Chicago Pneu. Tool Co., 50 Church St., New York, N. Y., and 35 King Ave., Highwood Park, Weehawken, N. J.
- ALDEN, George I. (1880), Vice-President, 1891-1893; Treas. and Cons. Engr., Norton Co., and *for mail*, 48 Queen St., Worcester, Mass.
- ALDEN, Herbert W. (1908), Ch. Engr., Timken Detroit Axle Co., Clark Ave., Canton, O.
- ALDRICH, Chester S. (Junior, 1909), Treas., Gray-Aldrich Co., 7 Commer. Wharf, Boston, and 380 Park St., Dorchester, Mass.
- ALDRICH, Herbert Lincoln (Associate, 1900), Pres. and Treas., Internat. Marine Engrg., also The Boiler Maker, 17 Battery Pl., and Hotel San Remo, Central Park W. and 74th St., New York, N. Y.
- ALDRICH, J. Guy (Junior, 1903), Aldrich-Cowen Engrg. Co., Va. and S. Water Sts., and *for mail*, 618 Dover St., Milwaukee, Wis.
- ALDRICH, John Gladding (1901), V. P. and Genl. Mgr., N. E. Butt Co., and 223 Bowen St., Providence, R. I.
- ALDRICH, William Sleeper (1892), Life Member; Dir., Thomas S. Clarkson Memorial Sch. of Tech., and *for mail*, 51 Main St., Potsdam, N. Y.

- ALEXANDER, Arthur Thomson (Junior, 1905), Mgr., Alexander & Co., P. O. Box 347, Port Elizabeth, South Africa.
- ALEXANDER, Chas. A. (1899; 1905), Engr. and Contr., Bldrs.' Exch., and *for mail*, 3 Cornell St., Rochester, N. Y.
- ALEXANDER, Edward E. (Associate, 1908), Shop Engr., Am. Loco. Co., Cooke Wks., and *for mail*, 830 E. 23d St., Paterson, N. J.
- ALEXANDER, Harry (1895; 1899; 1901), Elec. and Mech. Cont. Engr., Astor Court Bldg., 18-20 W. 34th St., New York, and Great Neck, N. Y.
- ALEXANDER, Louis Albion (1901), Genl. Stores Keeper, Genl. Supt.'s office, Am. Brass Co., and *for mail*, P. O. Box 514, Waterbury, Conn.
- ALEXANDER, Ludwell Brooke (Junior, 1905), V. P., Haggerty Contr. Co., Davidson Ave. and Fordham Rd., and *for mail*, 2262 Sedgwick Ave., New York, N. Y.
- ALEXANDER, Magnus W. (1906), Genl. Elec. Co., West Lynn, Mass.
- ALFORD, Leon Pratt (1900; 1908), Engrg. Editor, American Machinist, 505 Pearl St., and 67 W. 106th St., New York, N. Y.
- ALGER, Harley C. (Junior, 1908), Supt., Willcox Engrg. Co., and *for mail*, 300 Simonean St., Saginaw, Mich.
- ALLAN, Percy (1898; 1903), Treas., Jenkins Mfg. Co., Bloomfield, and *for mail*, Montclair, N. J.
- ALLAN, Wm. T. (Associate, 1906), Andrew Allan & Sons, 486 Greenwich St., New York, N. Y., and 728 Ocean Ave., Jersey City, N. J.
- ALLEN, Albert Mark (1903; 1908), Cons. Engr., 1130 Schofield Bldg., and 1319 E. 82d St., N. E., Cleveland, O.
- ALLEN, Benj. T. (1903), Ch. Engr., Harrisburg Fdy. Mch. Wks., and *for mail*, 229 S. 13th St., Harrisburg, Pa.
- ALLEN, Carlton B. (Junior, 1905), Ch. Engr., Marine Dept., N. Y., N. H. & H. R. R. Co., Harlem River Sta., New York, and *for mail*, 30 Colonial Pl., New Rochelle, N. Y.
- ALLEN, Charles M. (1901; 1903), Prof. Hyd. Engrg., Worcester Poly. Inst., and 10 Dean St., Worcester, Mass.
- ALLEN, Francis B. (1880), V. P., Hartford Steam Boiler Insp. & Ins. Co., and 56 Prospect St., Hartford, Conn.
- ALLEN, George L., Jr. (Junior, 1906), 26 Westmoreland Pl., St. Louis, Mo.
- ALLEN, Henry Asa (1900), Pres., Henry A. Allen & Co., 1431 First Natl. Bank Bldg., and 1632 Irving Park Blvd., D3, The Pattington, Chicago, Ill.
- ALLEN, John Robins (1894; 1903), Prof. Mech. Engrg., 215 New Engrg. Bldg. and 226 S. Ingalls St., Ann Arbor, Mich.
- ALLEN, Walter C. (Junior, 1905), Genl. Mgr., Yale & Towne Mfg. Co., 9 Murray St., New York, N. Y., and 181 Greylock Pl., Stamford, Conn.
- ALLISON, Robert (1884), Mech. Engr., Ret., Port Carbon, Pa.
- ALLYN, Robert S. (Associate, 1909), Counsel and Expt. in Pat. Causes, 16 Exch. Pl., New York, N. Y.
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- ALTA, Lucas Nicholas (1896), Mech. Engr. and member of Firm, L. N. Alta & Co., 35 Binnenkant, Amsterdam, and *for mail*, Breedeweg, 26, Watergraafsmeer, Holland.
- ALVORD, C. H. (Associate, 1903), V. P. and Genl. Mgr., Hendey Mch. Co., and 115 Litchfield St., Torrington, Conn.
- AMES, Geo. Edgar (1904), Mech. Supt., Lawrence Mfg. Co., and 119 Hall St., Lowell, Mass.
- AMES, Joseph H. (1898), Ch. Engr., Am. Car & Fdy. Co., 412 Ry. Exchange, Chicago, and 438 Maple Ave., Oak Park, Ill.
- AMSLER, W. O. (Junior, 1897), Engr., 647 Wabash Bldg., and 5510 Margaretta St., Pittsburg, Pa.
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- ANDERSON, Leslie Douglass (Associate, 1906), Asst. Ch. Engr., U. S. Smelting, Refining & Mining Co., 920 Newhouse Bldg., Salt Lake City, Utah.
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- ANDERSON, Robt. Marshall (1898), Boyce, La.
- ANDERSON, W. E. (Junior, 1889), Engr. and Mgr., Internat. Water Co., El Paso, Tex.
- ANDREW, James D. (1904), Boston El. Ry. Co., 439 Albany St., Boston, and 15 Lee Ave., Chestnut Hill, Mass.
- ANDREWS, Jacob R. (1906), Pres., Hyde Windlass Co., Bath, Me.
- ANDREWS, Wm. Johnson (Junior, 1898), Mech. Engr., P. O. Box 231, and 105 E. North St., Raleigh, N. C.
- ANDRIX, Earl Russel (Junior, 1909), 802 Bellows Ave., Columbus, O.
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- ARCHER, Edward R. (1890), Ch. Engr., Tredegar Co., and *for mail*, 303 W. Franklin St., Richmond, Va.
- ARD, Charles Edgar (1908), Engr., Arch. and Contr., P. O. Box 148, Starkville, Miss.
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- ARMSTRONG, E. J. (1886; 1891), Engr., Ball Eng. Co., and *for mail*, 954 W. 9th St., Erie, Pa.
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- ARMSTRONG, Walter Jonas (Junior, 1907), Draftsman, Jeffrey Mfg. Co., and *for mail*, 319 Buttles Ave., Columbus, O.
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- ARNOLD, G. L. H. (1899), P. O. Box 1, Stamford, Conn.
- ARNOLD, Otto, Jr. (Junior, 1905), Mgr., Friedrich Stolzenberg & Co., G. m. b. H., Berlin, Reinickendorf, West Germany.
- ARNOLD, Walter S. (1901), M. M. and Ch. Engr., Grosvenordale Co., and P. O. Box 106, Grosvenordale, Conn.
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- ATTERBURY, Wm. Wallace (1894), 5th V. P., Pa. R. R. Co., Broad St. Sta., Philadelphia, Pa.
- ATWATER, Chris. G. (1891; 1901), Mech. Engr., Rm. 1213, Whitehall Bldg., 17 Battery Pl., New York, and 285 Lincoln St., Flushing, L. I., N. Y.
- ATWOOD, Geo. D. (Junior, 1903), Mgr., N. Y. Office, Wheeler Condenser & Engrg. Co., 149 Broadway, and Pres., Atwood-Rearick Co., 30 Church St., New York, and 514 E. 16th St., Brooklyn, N. Y.
- ATWOOD, William S. (1908), Asst. to 2d V. P., Canadian Car & Fdy. Co., Ltd., 225 Metcalf Ave., Montreal, Canada.
- AUE, Jos. E. (1899), Pacific Gas & Elec. Co., Bayshore Dist., San Francisco, Cal., and 2968 Decatur Ave., New York, N. Y.
- AULL, Jerome J. (Junior, 1906), Mech. Engr., The Lunkenheimer Co., and 837 Academy Ave., Cincinnati, O.
- AUSTIN, Adolph Odell (Junior, 1905), Asst. Engr., Vilter Mfg. Co., Milwaukee, Wis.
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- BABBITT, Geo. Rodney (1888), Pres. and Treas., Am. Oil Co., 182 S. Water St., Providence, and 130 Shaw Ave., Edgewood, R. I.
- BABCOCK, Stephen E. (1881), Mech. and Civil Engr., Rm. 55, Mann Bldg., and 131 Oneida St., Utica, N. Y.
- BACHELDER, Joseph Elmer (Junior, 1905), Mgr., Steam Pump Mfg. Dept., Fairbanks, Morse Mfg. Co., and *for mail*, 816 Park Ave., Beloit, Wis.
- BACKLIN, Axel F. (1902), Asst. to Ch. Engr., Am. Steel & Wire Co., and 17 Holden St., Worcester, Mass.
- BACON, Charles James (1905; 1907), Steam Engr., Ill. Steel Co., South Chicago, and 1440 E. 66th St., Chicago, Ill.
- BACON, Earle C. (1885; 1886), Cons. and Contr. Engr., Havemeyer Bldg., 26 Cortlandt St., New York, N. Y.
- BACON, Frederick T. H. (1908), Cons. Engr.; 30 Church St., and 126 Claremont Ave., New York, N. Y.
- BACON, George W. (1898; 1899), Mech. Engr., Member of firm, Ford, Bacon & Davis, 115 Broadway, and 23 W. 67th St., New York, N. Y.
- BACON, John Lord (Junior, 1899), Engr. and Supt. of Constr., R. P. Shields & Son, 605 Scripps Bldg., and *for mail*, 3435 D St., San Diego, Cal.
- BAEHR, William Alfred (1903), 1943 Commer. Natl. Bank Bldg., Chicago, Ill.
- BAENDER, Fred Geo. (Junior, 1909), Mech. Engr., P. O. Box 735, Spokane, Wash.
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- BAILEY, H. Morell (Junior, 1909), Mech. Engr., Engrg. Dept., Carnegie Steel Co., and *for mail*, Duquesne, Allegheny Co., Pa.
- BAILEY, T. S. (1896; 1905), Ch. Engr., Elec. Boat Co., Quincy, and 17 Park St., Wollaston, Mass.
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- BAKER, Charles H. (Junior, 1903), Asst. Ch. Engr., Cos Cob Power Sta., Cos Cob, and *for mail*, 10 Relay Pl., Stamford, Conn.
- BAKER, Charles Whiting (1893), Vice-President, 1909-1911; Editor Engineering News, St. Paul Bldg., 220 Broadway, New York, N. Y., and 20 S. Mountain Ave., Montclair, N. J.

- BAKER, Chalice Whitmore (1905), Mech. Engr., with Allis-Chalmers Co., and 273 Howell Ave., Milwaukee, Wis.
- BAKER, Dickerson G. (1905), Wks. Mgr., Blake & Knowles Steam Pump Wks., East Cambridge, and *for mail*, 11 Mt. Pleasant St., Winchester, Mass.
- BAKER, Frank D. (1893), Mech. Engr., Am. S. & R. Co., 827 Symes Bldg., and *for mail*, 3221 Franklin St., Denver, Colo.
- BAKER, George Otis (1906), Mech. Engr., N. E. Engrg. Co., 30 Church St., and *for mail*, 570 W. 183d St., New York, N. Y.
- BAKER, John C. W. (1904), M. M., U. S. Rubber Co., Reclaiming Plant, and *for mail*, 12 Fairview Ave., Naugatuck, Conn.
- BAKER, William E. (1902), W. E. Baker & Co., 27 William St., New York, N. Y.
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- BALDWIN, C. Kemble (1905), Ch. Engr., Robins Conveying Belt Co., 1040 Old Colony Bldg., and 5427 Jefferson Ave., Chicago, Ill.
- BALDWIN, Frank Ruel (1891), 39 Winfield Ave., Jersey City, N. J.
- BALDWIN, J. Edward (Junior, 1902), Secy., Fulton Eng. Co., Sales Mgr., Kent Eng. Co., 39 Gold St., Brooklyn, and *for mail*, Graham Ave., Hempstead, L. I., N. Y.
- BALDWIN, Oscar H. (1889), London Dist. Mgr., British Westinghouse Elec. & Mfg. Co., Ltd., London, England.
- BALDWIN, Stephen W. (1880), Manager, 1887-1890; Vice-President, 1890-1892; Mech. Engr., 29 Hyslop Rd., Brookline, Mass.
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- BALL, Walter Seaver (1900), United Shoe Mchy. Co., and *for mail*, 32 Pickett St., Beverly, Mass.
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- BARR, Harry P. (Junior, 1889), 157 N. Walnut St., East Orange, N. J.
- BARR, John H. (1889) Mgr., Smith Premier Wks., and 813 James St., Syracuse, N. Y.
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- BARTON, Henry L. (1903), V. P., Metal Products Co., 226 Abbott St., Detroit, Mich.
- BARY, Mark (Associate, 1903), care M. F. Levy, 621 Symes Bldg., Denver, Colo.
- BASFORD, Geo. M. (1889; 1891), Manager, 1905-1909; Asst. to Pres., Am. Loco. Co., 30 Church St., New York, and *for mail*, 134 Primrose Ave., Mt. Vernon, N. Y.
- BASINGER, James G. (1907), Civ. Engr., 52 Broadway, and 523 W. 121st St., New York, N. Y.
- BASSHOR, Chas. Hazeltine (1908), V. P. and Genl. Mgr., Thomas C. Basshor Co., 28 Light St., Baltimore, Md.
- BATCHELDER, Asa Fred (1903), Designing Engr., Ry. Engrg. Dept., Genl. Elec. Co., and 1375 Union St., Schenectady, N. Y.
- BATCHELOR, Charles (1880), 33 W. 25th St., New York, N. Y.
- BATEMAN, Edward L. (Associate, 1897), Mgr. for South Africa, Allis-Chalmers Co., P. O. Box 6659, Johannesburg, Transvaal, South Africa.
- BATEMAN, George Wm. (Junior, 1909), Asst. to Secy., and Wks. Mgr., Sullivan Mchy. Co., and *for mail*, 108 Pleasant St., Claremont, N. H.
- BATES, Albert H. (Junior, 1890), Pat. Lawyer, 1028 Soc. for Savings Bldg., and 275 Noble Rd., E., Cleveland, O.
- BATES, Albert Henry (Junior, 1907), Draftsman, Shaw Elec. Crane Co., and *for mail*, 42 Jiroch St., Muskegon, Mich.
- BATES, Alex B. (1889), Rear Admiral, U. S. Navy, Ret., Cons. and Supervising Mech. Engr., 18 Riverside Drive, Binghamton, N. Y.
- BATES, Edward Carrington (1899), 122 Marlboro St., Boston, Mass.
- BATES, Edward P. (1891), Life Member; Prin., 228 W. Water St., Syracuse, N. Y.
- BATTEN, Percy H. (Junior, 1901), 303 Ry. Exch. Bldg., and *for mail*, 21 E. Walton Pl., Chicago, Ill.
- BAUER, Chas. L. (1900; 1901), Pres., Foos Mfg. Co., and 1215 E. High St., Springfield, O.

- BAUM, Frank G. (1906), Cons. Elec. and Hy. Engr., 1404 Chronicle Bldg., San Francisco, and 3004 College Ave., Berkeley, Cal.
- BAUSCH, F. E. (1904). Mgr., Hooven, Owens, Rentschler Co., 1316 Chem. Bldg., St. Louis, Mo.
- BAUSH, George Henry (1905), M. E. and Genl. Mgr., Fay Mch. Tool Co., 2d and Glenwood Ave., and *for mail*, 2101 Spring Garden St., Philadelphia, Pa.
- BAUSH, William H. (1904), M. E., and in charge sales, Confectioners' Mchy. & Mfg. Co., and 419 Sumner Ave., Springfield, Mass.
- BAVIER, Charles Samuel (Associate, 1907), Ch. Engr., Metro. Life Ins. Co. Bldg., 1 Madison Ave., New York, N. Y.
- BAXTER, Burke Morgan (Junior, 1908), 6823 Ætna Rd., S. E., Cleveland, O.
- BAYLE, Emile J. (1907), Genl. Engr., Am. Beet Sugar Co., and *for mail*, 1530 16th St., Denver, Colo.
- BAYLEY, W. (1904), Pres. and Ch. Engr., Wm. Bayley Co., and *for mail*, 521 S. Fountain Ave., Springfield, O.
- BAYLEY, W. D. (1902), V. P., Wm. Bayley Co., and *for mail*, 521 S. Fountain Ave., Springfield, O.
- BAYLIS, Arthur Raymond (1905; 1906), M. P. Dept., I. R. T. Co., 59th St. Power House, New York, and *for mail*, 2416 Clarendon Rd., Flatbush, N. Y.
- BAYLIS, Robt. Nelson (1892), Pres. and Engr., The Baylis Co., Bloomfield, N. J.
- BEACH, Charles S. (Junior, 1885), Designer and Machinist, 745 Main St., Bennington, Vt.
- BEACH, Harold Kenney (Junior, 1904), Natl. Conduit & Cable Co., Hastings-on-Hudson, N. Y.
- BEALL, Frank F. (Junior, 1902), Asst. Factory Mgr., Packard Motor Car Co., and 222 Putnam Ave., W., Detroit, Mich.
- BEAMAN, Elmer A. (1891), Beaman & Smith Co., Gordon and Reynolds Ave., and *for mail*, 237 Washington Ave., Providence, R. I.
- BEAN, Irving McC (Junior, 1903), 4 Prospect Ave., Milwaukee, Wis.
- BEARDSLEY, Arthur (1883), Life Member; Emeritus Prof. Engrg., Swarthmore College, Swarthmore, Del. Co., Pa.
- BECHTEL, John Adams (Associate, 1900), Williamsburg, Va.
- BECK, James Doughty (1906), Supt. Constr., Shakespeare Iron Wks., and *for mail*, 2331 Constance St., New Orleans, La.
- BECK, Matthias A. (1886), 294 Greenbush St., Milwaukee, Wis.
- BECKSTRAND, Elias H. (1908), Prof. Mech. Engrg., Univ. of Utah, Salt Lake City, Utah.
- BECKWITH, Arthur K. (1907), Genl Supt, Round Oak Stove Wks, Dowagiac, Mich.
- BEEBE, Murray Chas. (Associate, 1904), Prof. Elec. Engrg., Univ. of Wis., and 211 Langdon St., Madison, Wis.
- BEECHER, Henry Ward (Junior, 1908), Mgr., Seattle Office, Chas. C. Moore & Co., 618 Mut. Life Bldg., and The Hillcrest, 17th and E. Howell Sts., Seattle, Wash.
- BEECHER, J. F. (Associate, 1908), Draftsman, Pa. Steel Co., and *for mail*, 310 N. Second St., Harrisburg, Pa.

- BEEKMAN, John V. (1889), Genl. Supt., Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and 216 W. 8th St., Plainfield, N. J.
- BEHN, Carl (1903), Mgr., Buffalo Refrig. Mch. Co., 126 Liberty St., New York, N. Y., and 24 Nassau Pl., East Orange, N. J.
- BEHR, Hans C. (1891), Cons. Mech. Engr., Cons. Gold Fields of South Africa, Ltd., P. O. Box 1167, Johannesburg, Transvaal, South Africa.
- BEHREND, Bernard A. (1909), Elec. and Mech. Engr., 5754 Howe St., E.E., Pittsburg, Pa.
- BEHREND, Ernst Richard (1900), Pres., Hammermill Paper Co., Erie, Pa.
- BELL, James Richard (1895), Cons. Engr., Hazeldene, Ightham, Kent, England.
- BELL, John Everett (Associate, 1903), Mech. Engr., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and Oradell, N. J.
- BELL, Joseph M. (1899), Mech. Engr., Reading Iron Co., and *for mail*, 140 N. 4th St., Reading, Pa.
- BELLOWS, Lewis Edward (Associate, 1898), 24 Milk St., Boston, Mass.
- BELSLEY, Clay (1899; 1904), City Engr., 308 City Hall, and 1405 N. Jefferson Ave., Peoria, Ill.
- BEMENT, A. (1901), Cons. Engr., 2114 Fisher Bldg., and 2927 Warren Ave., Chicago, Ill.
- BENCH, Alfred Rittscher (Junior, 1907), Instr. Mech. Engrg., Univ. of Ill., Urbana, Ill.
- BENDIT, Louis (Associate, 1905), K. C. Sales Engr., 504 N. Y. Life Bldg., Kansas City, and *for mail*, 134 W. Sea Ave., Independence, Mo.
- BENET, Laurence V. (1892), Administrateur-Directeur, Société Anonyme des Anciens Etablissements Hotchkiss & Cie., 21, Rue Royale, and *for mail*, 1. Ave. de Camoens, Paris, France.
- BENJAMIN, Chas. Henry (1892), Dean Schools of Engrg., Purdue Univ., and 629 University St., Lafayette, Ind.
- BENNET, Orville G., Jr. (Junior, 1907), care W. M. Bennet, Bank of Am., 46 Wall St., New York, N. Y.
- BENNETT, Chas. W. (1904), Asst. to Pres., Am. Sheet & Tin Plate Co., 1320 Frick Bldg., and 5800 Darlington Rd., Pittsburg, Pa.
- BENNETT, George G. (Junior, 1903), Engrg. Dept., Am. Thread Co., Merrick Mills, and *for mail*, 30 Arlington St., Holyoke, Mass.
- BENNETT, Geo. L. (1905), 290 Linden Ave., Flatbush, Brooklyn, N. Y.
- BENNETT, Joseph A. (1907), Mech. Engr., Lodge & Shipley Mch. Tool Co., and 2814 Melrose Ave., Cincinnati, O.
- BENNETT, Thomas Archibald (Junior, 1903), Mgr. of Belt Sales, B. F. Goodrich Co., and *for mail*, 39 Hawthorne Ave., Akron, O.
- BENNS, Charles P. (1898), Supt. Bldgs. and Grounds, Teachers College, Columbia Univ., and 195 Claremont Ave., New York, N. Y.
- BENSON, Orville (1901), Plant Engr., Am. Bridge Co., East Berlin, Conn.
- BENTLEY, Ernest W. (1904), Mgr., Pittsburg Office, Skinner Eng. Co., 507 Diamond Bank Bldg., Pittsburg, and 388 Vt. Ave., Rochester, Pa.

- BENTLEY, Harry (1907), Managing Dir., Lowca Engrg. Co., Ltd., Whitehaven, and *for mail*, Beach House, Parton, Whitehaven, England.
- BENTON, George H. (1908), Mgr. Valve Dept., The Fairbanks Co., New York, N. Y., and *for mail*, Metuchen, N. J.
- BENTON, Morris F. (Associate, 1903), Mech. Engr., 300 Communi-
paw Ave., Jersey City, and 107 Crescent Ave., Plainfield, N. J.
- BERG, Hart O. (1898; 1903), Engr., 72, Victoria St., Westminster, S. W., London, England, and 32, Ave. Champs Elysées, Paris, France.
- BERG, P. T. (1890), Am. Vice Consul Genl., No. 1, Strandvagen, Stockholm, Sweden.
- BERGER, Franz Alfred (1909), Instr. Mech. Engrg., Washington Univ., St. Louis, Mo.
- BERLINER, Richard W. (Junior, 1903), V. J. Hedden & Sons Co., Bldrs., Metro. Tower, and 608 Riverside Drive, New York, N. Y.
- BERNA, Geo. (1906), Pres., Hygeia Ice Co., Ithaca, N. Y.
- BERNARD, James L. (1902), Mech. Engr., Am. Bridge Co., Am-
bridge, and Beaver, Beaver Co., Pa.
- BERNHARD, Richard (Junior, 1901), Ch. Engr., Mining, Crushing
and Cement Mchy. Dept., Power & Min. Mchy. Co., Cudahy, and
for mail, 632 Wentworth Ave., Milwaukee, Wis.
- BERRY, Edgar H. (1905; 1907), 248 N. 20th St., East Orange, N. J.
- BERRYMAN, Wilson G. (Junior, 1905), Engr., Combustion Utilities
Corp., 60 Wall St., and *for mail*, 541 W. 123d St., New York,
N. Y.
- BERTSCH, John Charles (1901), Cons. Engr., 228 Brown-Randolph
Bldg., Atlanta, Ga.
- BETTENDORF, William P. (1895), Pres., Bettendorf Axle Co.,
Davenport, Ia.
- BETTS, Alfred (1881), 906 Adams St., Wilmington, Del.
- BEVERLEY, Richard Carter (Junior, 1906), Partner, W. P. Long-
worth & Co., Engrs. and Contrs., and *for mail*, 611 E. Franklin
St., Richmond, Va.
- BEVIN, Sydney (Junior, 1909), Asst. Fdy Foreman, Mfr. Rider &
Ericsson Hot-Air Pumps. Wolden, Orange Co., N. Y.
- BIBBINS, James Rowland (1904; 1909), Engr., Pub. Service Commis-
sion, Tribune Bldg., 154 Nassau St., New York, N. Y.
- BIDLE, William Sanford (1904), Mgr., Turnbuckle Dept., Cleveland
City Forge & Iron Co., and *for mail*, 1809 E. 93d St., Cleve-
land, O.
- BIERBAUM, Christopher Henry (1894; 1898), Life Member; Cons.
Engr., V. P., Lumen Bearing Co., Pres., Robson Smelting Co.,
Pres., Molyneux Mailing Mchs. Co., 1142 Prudential Bldg., and 80
Fargo Ave., Buffalo, N. Y.
- BIGELOW, Charles H. (1904), with Chas. T. Main, Mill Engr.,
45 Milk St., Boston, and *for mail*, 46 Calhoun Ave., Everett, Mass.
- BIGELOW, Frank B. (1907), Sales Mgr., Murphy Iron Wks., and
Addison Apts., Detroit, Mich.
- BIGELOW, Frank L. (1887) Pres., The Bigelow Co., and 205 Whit-
ney Ave., New Haven, Conn.

- BIGELOW, Myron J. (1904), Mech. Engr., Molyneux Mailing Mchs. Co., 253 Ellicott St., and *for mail*, 357 Delaware Ave., Buffalo, N. Y.
- BILGRAM, Hugo (1885), Machinist, 1235 Spring Garden St., and 751 N. 40th St., Philadelphia, Pa.
- BILLINGS, A. W. K. (1909), care J. G. White & Co., Inc., 43 Exch. Pl., New York, N. Y.
- BILLINGS, Charles E. (1880), Vice-President, 1893-1895; President, 1894-1895; Life Member; Pres. and Genl. Mgr., Billings & Spencer Co., and 86 Buckingham St., Hartford, Conn.
- BILLINGS, Frederic C. (1891), V. P. and Supt., Billings & Spencer Co., and 78 Elm St., Hartford, Conn.
- BILLINGS, William Richardson (1906), Secy. and Treas., Alberger Condenser Co., and Alberger Pump Co., 95 Liberty St., New York, and 151 Columbia Hgts., Brooklyn, N. Y.
- BINSSE, Henry B. (1882), Pres., Binsse Mch. Co., Newark, N. J.
- BIRD, John D. (1891; 1905), Genl. Mgr., Power Mining Mch. Co., Cudahy, and Milwaukee, Wis.
- BIRD, Paul P. (1907), Ch. Smoke Inspr., Dept. Smoke Inspec., City of Chicago, and *for mail*, 1365 E. 48th St., Chicago, Ill.
- BIRD, William W. (1889; 1891), Prof. Mech. Engrg. and Dir., Washburn Shops, Worcester Poly. Inst., and 10 Harvard St., Worcester, Mass.
- BIRDSEY, Charles Robt. (Associate, 1907), Ch. Engr., U. S. Gypsum Co., 200 Monroe St., and *for mail*, 2053 Harrison St., Chicago, Ill.
- BIRKINBINE, John (1888), Cons. Engr., Odd Fellows' Temple, Broad and Cherry Sts., Philadelphia, and *for mail*, Cynwyd, Montgomery Co., Pa.
- BISHOP, Charles R. (1903), Secy. and Genl. Mgr., Am. Dist. Steam Co., and 413 Locust St., Lockport, N. Y.
- BISHOP, Frank (Associate, 1907), Mech. Engr., Singer Mfg. Co., Case Factory, and *for mail*, 1241 Mich. Ave., South Bend, Ind.
- BISSELL, Geo. W. (1890; 1899), Prof. Mech. Engrg. and Dean of Engrg., Mich. Agri. College, East Lansing, Mich.
- BITTERLICH, Walter J. (Junior, 1906), Ch. Draftsman, Hood Rubber Co., Watertown, and *for mail*, 6 Woodville Park, Roxbury, Mass.
- BIXBY, Allan Smith (1907), Supt., Nat. Malleable Castings Co., Indianapolis, Ind.
- BIXBY, Walter (Junior, 1907), Mech. Engr., 17 Brainard St., Hyde Park, Mass.
- BIXBY, Col. William H. (1888), Life Member; U. S. Engr., 428 Custom House, St. Louis, Mo.
- BIXBY, William P. (Junior, 1908), Erie R. R. Co., and *for mail*, P. O. Box 364, Meadville, Pa.
- BIXLER, Harry Z. (1907), Worth Bros. Co., Coatesville, Pa.
- BLACK, Edward S. (1903), Mech. Engr., 1407 Ry. Exch. Bldg., and 7131 Howard Ave., Chicago, Ill.
- BLACKBURN, Arthur Henry (1894), Inglewood Manor, Fishkill-on-Hudson, N. Y.

- BLACKWELL, Josiah Low (1898), 27 William St., New York, N. Y., and Continental Bldg., Baltimore, Md.
- BLAISDELL, Benjamin H. (1909), Ch. Engr., Manila Elec. R. R. & Light Co., and *for mail*, P. O. Box 451, Manila, P. I.
- BLAKE, Clinton F. (1901), 122 Ashland Blvd., Chicago, Ill.
- BLAKE, Edwin Mortimer (1907), Cons. Engr., Prof. Mech. Engrg., Univ. of Ariz., Tucson, Ariz.
- BLAKE, Francis E. (Junior, 1901), Mech. Engr., State Barge Canal Office, New Lyon Block, Albany, and Delmar, Albany Co., N. Y.
- BLAKELEY, George Henry (1907), Struc. Engr., Bethlehem Steel Co., and *for mail*, 727 Seneca, St., South Bethlehem, Pa.
- BLANCHARD, Arthur S. (Associate, 1909), Asst. Genl. Mgr., Birdsboro Steel Fdy & Mch. Co., Birdsboro, and *for mail*, 241 S. 5th St., Reading, Pa.
- BLAND, John P. (1901), Printer and Ch. Engr., The Times, and *for mail*, 32 Atherfold Rd., Clapham, London, S. W., England.
- BLANKENHORN, George Stevens (Junior, 1906), Office Cons. Mech. Engr., Allis-Chalmers Co., West Allis, and *for mail*, 491 Jefferson St., Milwaukee, Wis.
- BLATCHLEY, Chas. A. (1906), Mech. Engr., 1052 Drexel Bldg., Philadelphia, Pa., and 47 Walnut St., Haddonfield, N. J.
- BLAUVELT, Albert (1896), Asso. Mgr., Western Factory Ins. Asso., N. Y. Life Bldg., 171 La Salle St., Chicago, Ill.
- BLAUVELT, Wm. Hutton (1900), Cons. Engr., Semet-Solvay Co., and *for mail*, 1917 W. Genesee St., Syracuse, N. Y.
- BLENCOWE, John (1900), W. Lafayette St., Easton, Pa.
- BLESSING, James H. (1891), Pres., Albany Steam Trap Co., and *for mail*, 107 Eagle St., Albany, N. Y.
- BLEYER, Chas. F. (Junior, 1909), Erecting Engr., Allis-Chalmers Co., and *for mail*, 836 Cass St., Milwaukee, Wis.
- BLISS, Collins P. (1903), Prof. Mech. Engrg., N. Y. Univ., Univ. Hgts., and Bliss & Griffiths, 225 Fifth Ave., and *for mail*, 2206 Andrews Ave., New York, N. Y.
- BLISS, Edwin C. (1908), Pres., E. C. Bliss Mfg. Co., V. P., A. H. Bliss Co., also 91 Sabin St., Providence, R. I.
- BLOEMEKE, RUDOLPH B. (1909), Ch. Draftsman, N. Y. Edison Co., 55 Duane St., New York, N. Y.
- BLOOD, Chas. W. H. (1902), V. P. and Mech. Engr., S. A. Woods Mch. Co., Door St., South Boston, and *for mail*, 19 Floyd St., Winthrop Highlands, Mass.
- BLOOD, John Balch (1895; 1903), Cons. Engr., Blood & Hale, 10 P. O. Sq., Boston, and 232 High St., Newburyport, Mass.
- BLOOD, Louis Henry (1905), Designer, Brown & Sharpe Mfg. Co., Providence, and Oak Lawn, R. I.
- BLOOMBERG, Jonas H. (1903), Cons. Engr., Avenida Del Cinco De Mayo No. 32, and *for mail*, Primera de Orizaba No. 11, Mexico City, D. F., Mexico.
- BLOSSOM, Francis (1902), Partner, Sanderson & Porter, 52 William St., New York, and 65 Heywood Ave., Orange, N. J.
- BLUM, Joseph K. (Junior, 1909), 146 Central Park W., New York, N. Y.

- BLUMGARDT, Isaac E. (Associate, 1908), Hotel Florence, Tarrytown, N. Y.
- BOCORSELSKI, F. E. (1907), Supt. and Designer, Bausch Mch. Tool Co., and 384 N. Main St., Springfield, Mass.
- BODWELL, Howard L. (1907), Dist. M.M., Am. Sheet & Tin Plate Co., Vandergrift, Pa.
- BOEHM, Wm. H. (1900), Supt., Depts. Steam Boiler and Fly Wheel Ins., Fidelity & Casualty Co., 97 Cedar St., and 281 Edgecombe Ave., New York, N. Y.
- BOENIG, Robert W. (1892; 1909), Engr. in Charge, Nichols Copper Co., Bor. of Queens, and *for mail*, 157 Meeker Ave., Brooklyn, New York, N. Y.
- BOERNER, Emile C. (1895), Cons. Mech. Engr., Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 214 Locust Ave., Port Chester, N. Y.
- BOGARDUS, Henry A. (Associate, 1907), Henry A. Bogardus & Co., 159 W. Huron St., Chicago, Ill.
- BOLAND, Frederick A. (1902), present address unknown.
- BOLE, Wm. A. (1887), Cons. Engr., Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 722 S. Negley Ave., Pittsburgh, Pa.
- BOLLER, Alfred P., Jr. (1901), 45 E. 17th St., New York, N. Y., and East Orange, N. J.
- BOLLES, Frank G. (Associate, 1901), Commer. Engr., Allis-Chalmers Co., and 2714 Wells St., Milwaukee, Wis.
- BOLTON, Reginald P. (1898), Cons. Expt., 527 Fifth Ave., and 638 W. 158th St., New York, N. Y.
- BOND, Francis M. (Junior, 1909), Engr. in Wood Preservation, Forest Products Lab., Madison, Wis.
- BOND, Geo. M. (1881), Manager, 1888-1891; Vice-President, 1908-1910; Mech. Engr., 141 Wash. St., Hartford, Conn.
- BONE, Wm. H. (1883), V. P. and Genl. Mgr., The Ironsides Co., and *for mail*, 85 N. Ohio Ave., Columbus, O.
- BONNER, William T. (1893; 1898), Mech. Engr., Am. Hardware Corp., and *for mail*, 20 S. High St., New Britain, Conn.
- BONZANO, Adolphus (1892), Pres., Bonzano Rail Joint Co., Pa. Bldg., 15th and Chestnut Sts., and *for mail*, 331 S. 18th St., Philadelphia, Pa.
- BOORAEM, J. Francis (1895; 1906), Secy., Treas. and Mgr., Am. Enam. Brick & Tile Co., 1 Madison Ave., New York, N. Y., and South River, N. J., res., 251 Shore Rd., Greenwich, Conn.
- BOORAEM, J. Van Vorst (1884), Life Member; Cons. Engr., 204 Lincoln Pl., Brooklyn, N. Y.
- BOOTH, Charles A. (1909), Charge Engrg. Sales, Buffalo Forge Co., Buffalo Steam Pump Co., and *for mail*, 142 Summit Ave., Buffalo, N. Y.
- BORDE, George U. (1909), Cons. Engr., 914 Hibernia Bldg., New Orleans, La.
- BORDEN, Wm. H. (Junior, 1905), Goldsboro, N. C.
- BORNHOLT, Oscar Charles (Junior, 1904), Mech. Engr., Ford Motor Co., Piquette Ave. and Beaubien St., and 50 Phila. Ave., Detroit, Mich.

- BOSSERT, Chas. Philip (1892; 1901), Mech. Engr., Pfister & Vogel Leather Co., and *for mail*, 179 36th St., Milwaukee, Wis.
- BOUGHTON, Judson H. (Junior, 1903), Secy. and Treas., Natl. Light & Improvement Co., Pierce Bldg., and 32 Yale Ave., University City, St. Louis, Mo.
- BOURNE, George L. (1903), V. P., Ry. Materials Co., 1515 Old Colony Bldg., and 4944 Michigan Blvd., Chicago, Ill.
- BOURNE, Stephen N. (1891), Agt., Dundee Mills, Hooksett, and *for mail*, Elm and Blodgett Sts., Manchester, N. H.
- BOURQUIN, James F. (Junior, 1907), Asst. Supt., Chalmers-Detroit Motor Co., and *for mail*, 372 Parker Ave., Detroit, Mich.
- BOUTON, Geo. Innes (1901; 1904), Engr., East. Dist., Heine Safety Boiler Co., 11 Broadway, and 137 W. 82d St., New York, N. Y.
- BOWEN, David R. (1899), Supt., Farrel Fdy. & Mch. Co., and *for mail*, 5 Clover St., Ansonia, Conn.
- BOWEN, Ernest S. (1892), V. P. and Genl. Supt., Fay & Bowen Eng. Co., and 72 North St., Geneva, N. Y.
- BOWEN, Harrison Seba (1895; 1908), Mech. Engr., R. W. Hunt & Co., 1121 Rookery Bldg., Chicago, and Wilmette, Ill.
- BOWER, J. G. (Associate, 1903), Sales Agt., Pressed Steel Car Co., 1475 Old Colony Bldg., and Metropole Hotel, Chicago, Ill.
- BOWMAN, Austin Lord (1899), Cons. Engr., 165 Broadway, New York, N. Y.
- BOWMAN, Franklin Meyer (1894; 1902), Struc. Engr., Riter, Conley Mfg. Co., 55 Water St., Pittsburg, and *for mail*, Lincoln and Starr Aves., Bellevue, Allegheny Co., Pa.
- BOYD, James C. (1907), Cons. Mech. Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, N. Y.
- BOYD, John J. (Associate, 1906), Pres., Hudson Engrg. Co., 90 West St., Pres., Foreign Steel Co., 140 Cedar St., New York, N. Y.
- BOYD, John T. (1887), Mgr., Yale & Towne Mfg. Co., 12 Pearl St., Boston, and *for mail*, 1819 Beacon St., Brookline, Mass.
- BOYD, William Charles (1907), Asst. Engr., Pittsburg Rys. Co., 435 Sixth Ave., Pittsburg, and *for mail*, McKees Rocks, Pa.
- BOYDEN, George A. (1907), P. O. Box 486, Baltimore, and Mt. Washington, Md.
- BOYER, Chas. Warren (1900; 1907), Mech. Engr., F. H. & C. W. Boyer, Box 10, and 50 Highland Ave., Somerville, Mass.
- BOYER, Edwin S. (1897; 1902; 1907), Mech. Engr., office Walter Kidde, Engr.-Constr., 140 Cedar St., New York, N. Y., and *for mail*, 93 Fairview Ave., Plainfield, N. J.
- BOYER, Frederic Quintard (Junior, 1909), 216 Orchard St., New Haven, Conn.
- BRADENBAUGH, Frank E. (Junior, 1902), Asst. Mgr., A. L. Neale & Co., Parkersburg, W. Va.
- BRADLEY, Carl D. (1907), Pres., Samuel L. Moore & Sons, Corp., and 353 Union Ave., Elizabeth, N. J.
- BRADLEY, W. H. (1892), Ch. Engr., Cons. Gas Co., 4 Irving Pl., and 23 W. 68th St., New York, N. Y.
- BRADLEY, Wm. Joseph (1905), Supt., Rail Joint Co., and 1 Belle Ave., Troy, N. Y.

- BRADSHAW, Grant D. (Junior, 1904), Cons. Engr., 77 Jackson Blvd., Chicago, Ill.
- BRADY, Joseph H. (1907), Ch. Engr., Bd. of Ed., Rm. J, Pub. Lib. Bldg., 9th and Locust Sts., and 2115 Benton Blvd., Kansas City, Mo.
- BRAINE, Bancroft G. (1896; 1905), Engr., Rail Joint Co., 29 W. 34th St., New York, and 67 First Pl., Brooklyn, N. Y.
- BRAMAN, Samuel N. (Junior, 1902), Westinghouse Mch. Co., 1006 North Am. Bldg., Philadelphia, Pa.
- BRANCH, Joseph G. (1904), Pres., Branch Pub. Co., 46 Van Buren St., Chicago, Ill.
- BRANDON, Geo. Russell (1897; 1901), Harvey, Ill.
- BRASHEAR, John A. (1891; Honorary, 1908), Manager, 1899-1902; Mfr. Astronomical and Physical Instruments, 1954-1964 Perrysville Ave., N. S., Pittsburg, Pa.
- BRAUN, Carl F. (Junior, 1907), Mgr., Standard Engrg. Co, 503 Market St., San Francisco, Cal.
- BRAY, Charles W. (1888), R. D. No. 1, Bridgeport, Pa.
- BRAY, Thos. Jos. (1898), V. P., Repub. Iron & Steel Co., Frick Annex, and *for mail*, 334 S. Dallas Ave., Pittsburg, Pa.
- BRECKENRIDGE, C. E. (Associate, 1904), care Am. Hard Rubber Co., College Point, New York, N. Y.
- BRECKENRIDGE, L. P. (1890), Vice-President, 1907-1909; Prof. Mech. Engrg., S. S. S., Yale Univ., 406 Humphrey St., New Haven, Conn.
- BREEN, James (Associate, 1893), Ohio Copper Co., 809 Newhouse Bld. and Alta Club, Salt Lake City, Utah.
- BREESE, Charles P. (1903), 123 Colonial Ave., Norfolk, Va.
- BRENDLINGER, Wm. B. (Associate, 1907), Mgr., Ingersoll-Rand Co., 1226 Farmers' Bank Bldg., Pittsburg, Pa.
- BRENNER, Wm. H. (1897), Managing Dir., Zemma Wks., Ltd., Yokohama, Japan, and *for mail*, Mgr., British Columbia Mfg. Co., also Box 154, New Westminster, B. C., Canada.
- BRESLOVE, Joseph (Junior, 1906), Engrg. Dept., Westinghouse Mch. Co., East Pittsburg, Pa.
- BRETT, Henry E. (1902), Cons. Engr., 114 N. Spring St., Los Angeles, Cal.
- BREWER, Arthur (1906), Supt. of Plant, Bridgeport Brass Co., and *for mail*, 100 Uncowa Hill, Bridgeport, Conn.
- BREWER, Henry (1907), Mgr., Cartridge Dept., Winchester Repeating Arms Co., and *for mail*, 418 Orange St., New Haven, Conn.
- BREWSTER, Frank H. (1894), Genl. Supt., U. S. Rubber Reclaiming Wks., 724 Babcock St., and 180 Woodbridge Ave., Buffalo, N. Y.
- BRIDGE, James W. (Associate, 1905), Genl. Mgr., Pittsburg, Monongahela & Washington Rys. Co., Monongahela, Pa.
- BRIGGS, Arthur J. (1907), Engrg. Mgr., Smith Premier Typewriter Co., and 107 Victoria Pl., Syracuse, N. Y.
- BRIGGS, James M. (1903), 154 Nassau St., New York, N. Y., and 101 Ascension St., Passaic, N. J.
- BRIGGS, William C. (1907), 133 Elm St., Elizabeth, N. J.

- BRIGHAM, Lucien M. (Junior, 1906), Sales Mgr., 85 Liberty St., New York, and Columbia Hgts., Brooklyn, N. Y.
- BRIGHT, Holstein D. H. (1905; Associate, 1906), Mgr., Steel and Iron Casting and Spring Depts., Standard Steels Wks. Co., 1008 Harrison Bldg., and *for mail*, 1608 Summer St., Philadelphia, Pa.
- BRILL, Geo. M. (1891; 1896), Manager, 1904-1907; Mech., Elec. and Arch. Engr., 1134-5 Marquette Bldg., and 6613 Harvard Ave., Chicago, Ill.
- BRINSMADE, Louis L. (1897; 1906), Eastern Sales Manager, Westinghouse Mch. Co., 165 Broadway, and The Friesland, 103d St. and Broadway, New York, N. Y.
- BRINTON, Willard C. (Junior, 1907), Industrial Engr., Westinghouse Elec. & Mfg. Co., East Pittsburg, and *for mail*, 611 Whitney Ave., Wilkesburg Sta., Pittsburg, Pa.
- BRISSELL, F. M. (Junior, 1902), Ch. Estimator, John Simmons Co., 110 Centre St., New York, and *for mail*, 599 Franklin Ave., Brooklyn, N. Y.
- BRISTOL, Wm. H. (1890), Pres., The Bristol Co., Waterbury, Conn.
- BRITTON, John A. (1907), V. P. and Genl. Mgr., Pacific Gas & Elec. Co., 445 Sutton St., San Francisco, Cal.
- BROCK, Walter I. (1902), Engr., Oswego, N. Y.
- BROCK, William M. (1894), Supt., Elec. Dept., Pub. Service, Edison Sta. and 576 E. 25th St., Paterson, N. J.
- BRODHEAD, Alex. L. (Junior, 1900), Pres., Greenville Silica Sand and Quarry Co., Greenville, and *for mail*, Catasauqua, Pa.
- BRONAUGH, Will Logan (Associate, 1905), Mgr. Iroquois Engrg. Co., 1211 Fisher Bldg., and 4467 Oakenwald Ave., Chicago, Ill.
- BRONSON, Edward L. (Associate, 1908), M. M., Shoe Hardware Co., and *for mail*, Montgomery St., Waterbury, Conn.
- BROOKS, Edwin C. (1884), Supt., Water Wks., City Hall, and *for mail*, 255 Lexington Ave., Cambridge, Mass.
- BROOKS, Henry K. (1907), Pres., Capital Iron Wks., and Westlawn, Topeka, Kan.
- BROOKS, J. Ansel (Junior, 1907), Asso. Prof. Mech. and Mech. Drawing, Brown Univ., Providence, R. I.
- BROOKS, Louis C. (Junior, 1901), 12 Fairmount Ave., West Somerville, Mass.
- BROOKS, Morgan (1885), Life Member; Prof. Elec. Engrg., Univ. of Ill., Urbana, Ill.
- BROOKS, Paul R. (1905; 1909), Editor, Eastern Dept., Railway and Engineering Review, 30 Church St., and 17 Gramercy Park, New York, N. Y.
- BROOME, Ernest L. (1898; 1909), Mech. Engr., Vielé, Blackwell & Buck, 49 Wall St., New York, and Mt. Vernon, N. Y.
- BROWN, A. G. (1884), Life Member; 39 Blackfriars, Manchester, and *for mail*, Ellerslie, Oswald Rd., Chorlton-cum-Hardy, England.
- BROWN, Alexander E. (1883), V. P. and Genl. Mgr., Brown Hoisting Mch. Co., St. Clair Ave., and *for mail*, 2626 Euclid Ave., Cleveland, O.
- BROWN, Alex. T. (1890), Life Member; Pres., Smith Premier Type-writer Co., Brown-Lipe Gear Co., and *for mail*, 608 W. Onondaga St., Syracuse, N. Y.

- BROWN, Charles F. (Associate, 1901), Solicitor of Patents, 837 Exch. Bldg., Boston, and 83 Prospect St., Reading, Mass.
- BROWN, Chas. S. (1890), Prof. Mech. Engrg., and Cons. Engr., Vanderbilt Univ., and 21 Garland Ave., Nashville, Tenn.
- BROWN, Dickson Q. (Junior, 1902), Tide Water Oil Co., 11 Broadway, New York, N. Y.
- BROWN, Donald S. (Junior, 1908), Salesman, Union Bank Bldg. and 5539 Columbo St., Pittsburg, Pa.
- BROWN, Edwin Hacker (Junior, 1903), Cadwell & Brown Co., 1045-51 Security Bank Bldg., and 2303 Pleasant Ave., Minneapolis, Minn.
- BROWN, Harry W. (Junior, 1909), Engr., D. C. & Wm. B. Jackson, 84 State St., Boston, and *for mail*, 118 Brighton Ave., Allston, Mass.
- BROWN, Herman Elisha (1908), Ch. Engr., Am. Cement Engrg. Co., 315 Fifth Ave., New York, and *for mail*, 15 W. Chestnut St., Kingston, N. Y.
- BROWN, Howard Hayes (Junior, 1908), Editor, International Marine Engineering, 17 Battery Pl., New York, N. Y.
- BROWN, Hugh T. (1903), Cont. Engr., and *for mail*, care Col. H. A. Brown, Columbia, Tenn.
- BROWN, J. Grove (1902), Mech. Engr., Monarch Road Roller Co., Groton, N. Y.
- BROWN, James Monroe (1900; 1906), Supt., Lyons Boiler Wks., De Pere, Wis.
- BROWN, J. Linwood (1902), M. E., R. F. D. No. 1, Conneaut, Ash-tabula Co., O.
- BROWN, John J. (1902), V. P. and Genl. Mgr., Wheeler Condenser & Engrg. Co., Carteret, and 324 Union Ave., Elizabeth, N. J.
- BROWN, John Quincy (1906), Asst. Genl. Mgr. and Engr., Oakland Traction Co., and San Francisco, Oakland & San José Railway, Oakland, Cal.
- BROWN, John Rowland (1900; 1904; 1909), Mech. Engr., Ohio Brass Co., Mansfield, O.
- BROWN, Richard P. (Junior, 1908), Mfr. Pyrometers, Edward Brown & Son, 311 Walnut St., Philadelphia, Pa.
- BROWN, Robt. S. (1891; 1904), Secy., New Britain Mch. Co., and *for mail*, 16 Forest St., New Britain, Conn.
- BROWN, Stephen Pearson (1909), Engr. for T. B. Bryson, 165 Broadway, and *for mail*, 59 E. 52d St., New York, N. Y.
- BROWN, Walter S. (1894; 1904), Engr., Power Dept., Bethlehem Steel Co., South Bethlehem, and *for mail*, 304 Seventh Ave., Bethlehem, Pa.
- BROWN, William Clinton (1896), Cons. Engr., 512 William St., Montreal, P. Q., and *for mail*, Prescott, Ont., Canada.
- BROWN, Wm. Hiram (1909), Mech. Engr. and Sales Agt., Toledo Elec. Welding Co., 600 Schofield Bldg., Cleveland, O.
- BROWNING, Charles, Jr. (1905), Foreman Lab., Southern Pacific Co., and *for mail*, 2107 22d St., Sacramento, Cal.
- BROWNING, Victor Reed (1908), V. P., Browning Engrg. Co., Cleveland, O.

- BRUCKNER, Rudolph E. (1909), Ch. Engr., Commer. Acetylene Co., 80 Broadway, New York, N. Y.
- BRUEGEL, A. Theodore (1900), Business Mgr., Hess-Bright Mfg. Co., 21st St. and Fairmount Ave., and 829 South St. Bernard St., Philadelphia, Pa.
- BRUFF, Charles E. (1908), N. Y. Mgr., Power & Min. Mch. Co., 115 Broadway, New York, N. Y.
- BRUSH, Charles F. (1880), Life Member; Elec. Engr., 481 The Arcade, and 3725 Euclid Ave., Cleveland, O.
- BRUSH, Frederick F. (Junior, 1900), Earlimart, Cal.
- BRUYERE, Paul Tulane (Associate, 1907), Supt. Constr. Dept., Standard Plunger El. Co., 115 Broadway, New York, N. Y., and *for mail*, 409 Park St., Upper Montclair, N. J.
- BRYAN, William H. (1891), Cons. Mech. and Elec. Engr., Rms. 315 and 316, Lincoln Trust Bldg., and 5718 Vernon Ave., St. Louis, Mo.
- BRYANT, F. J. (1902), M. M., Andrew McLean Co., 4th and Sussex Sts., and *for mail*, 31 Lincoln St., Passaic, N. J.
- BRYCE, James Wares (Associate, 1909), Goss & Bryce, 76 William St., New York, N. Y., and 50 Fremont St., Bloomfield, N. J.
- BUCHANAN, A. W. (1890; 1904), Private Secy. to Mrs. Graham E. Babcock, and *for mail*, 1332 N. Cascade Ave., Colo. Springs, Colo.
- BUCK, Irwin (Junior, 1907), Mgr., Alcohol Utilities Co., 156 W. 23d St., and 342 W. 56th St., New York, N. Y.
- BUCK, W. F. (1909), Supt. M. P., A. T. & S. F. Ry., Ry. Exch., Chicago, Ill.
- BUCKINGHAM, Henry H. (Junior, 1904), Hysham, Mont.
- BUCKLER, Albert H. (Junior, 1905), 16 Third St., S. E., Washington, D. C.
- BUCKLEY, John Francis (1906), Cons. Engr. to Genl. Supt., St. Marys Mch. Co., and 223 Walnut St., St. Marys, O.
- BUDD, Edward G. (1903), Mgr., Hale & Kilburn Metal Co., 19th and Glenwood Ave., and *for mail*, 610 W. Rittenhouse St., Philadelphia, Pa.
- BUFFUM, F. D. (1902; Associate, 1904), Gary, McDowell Co., W. Va.
- BUKER, Henry (1907), Brown & Sharpe Mfg. Co., and *for mail*, 16 Elton St., Providence, R. I.
- BULKELEY, Claude A. (1909), Ch. Engr., Bd. of Ed., St. Louis, Mo.
- BULKLEY, Henry W. (1885), Mech. Engr. and Mfr., 141 Broadway, New York, N. Y., and *for mail*, Orange, N. J.
- BULKLEY, J. Norman (1902), Cons. Elec. Engr., Genl. Mining & Finance Corp., and *for mail*, P. O. Box 1242, Johannesburg, Transvaal, South Africa.
- BULLARD, Dudley Brewster (1899), Mech. Engr. and Supt., Bullard Mch. Tool Co., and 2429 North Ave., Bridgeport, Conn.
- BULLOCK, Edwin R. (1890; 1904), Mech. Engr., United Cotton Gin Co., 184 Summer St., Boston, Mass., and *for mail*, 38 Brook St., Pawtucket, R. I.
- BULLOCK, Samuel A. (1906), Engr., Baldwin Loco. Wks., 500 N. Broad St., Philadelphia, and Media, Pa.

- BUMP, Archie Edmund (Associate, 1908), Mgr. Constr. Dept., Swift & Co., 34 N. Market St., Boston, and *for mail*, 11 Alpha Rd., Dorchester, Mass.
- BUMP, Burton Nelson (1892; 1904), Engr. of Tests, Solvay Process Co., Syracuse, N. Y.
- BUNN, Frank Wilson (1894), care John A. Roebling's Sons Co., Trenton, N. J.
- BUNNELL, Sterling Haight (1894; 1903), Wks. Mgr., Griscom-Spencer Co., 90 West St., and 519 W. 121st St., New York, N. Y.
- BUNTING, Douglas (1902), Ch. Engr., Lehigh & Wilkes-Barre Coal Co., and *for mail*, 26 W. Ross St., Wilkes-Barre, Pa.
- BURBANK, Louis S. (1898), Asst. Ch. Draftsman, M. E. Draper Co., and *for mail*, 20 Bancroft Park, Hopedale, Mass.
- BURCHARD, Anson W. (1888; 1891), 21 Front St., Schenectady, N. Y.
- BURDSALL, Ellwood (Junior, 1880), Secy. and Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, Westchester Co., N. Y.
- BURGAN, A. L. (1897; 1899; 1903), Mill Supt., Tamarack Min. Co., Osceola Cons. Mfg. Co., Ahmuk Min. Co., Hubbell, Mich.
- BURGESS, Chas. Munroe (1897), Life Member; 358 W. Main St., New Britain, Conn.
- BURGESS, Edward W. (Junior, 1908), Metzger Motor Car Co., and *for mail*, 147 Milwaukee Ave., East Detroit, Mich.
- BURGOON, Charles Eli (1907), Asst. Inspecting Engr., Isthmian Canal Com., and 18 Ia. Circle, Washington, D. C.
- BURLEIGH, Chas. B. (1905), Commer. Engr., Gen'l Elec. Co., 84 State St., Boston, and 1 Oak Terrace, Malden, Mass.
- BURLEIGH, Wm. F. (1905), Asst. Supt., Murphy Varnish Co., Newark, and Metuchen, N. J.
- BURLINGAME, Luther D. (1903), Ch. Draftsman, Brown & Sharpe Mfg. Co., and *for mail*, 15 Catalpa Rd., Providence, R. I.
- BURLINGAME, Wm. B. (1906), Supt., Exeter Mch. Wks., and *for mail*, 18 Linden St., Exeter, N. H.
- BURNHAM, Harry A. (1898; 1902), Ridgewood Terrace, Waltham, Mass.
- BURNHAM, Wm. (Associate, 1888), Pres. and Treas., Standard Steel Wks. Co., Harrison Bldg., and *for mail*, 4301 Spruce St., Philadelphia, Pa.
- BURNS, A. L. (1888; 1897), V. P., Jabez Burns & Sons, 600 W. 43d St., New York, and 378 Grand Ave., Brooklyn, N. Y.
- BURR, John T. (1884), 429-431 Kent Ave., and *for mail*, Mansion House, Brooklyn, N. Y.
- BURR, Jonathan Sturges (Junior, 1894), J. T. Burr & Son, and *for mail*, 429-431 Kent Ave., Brooklyn, N. Y.
- BURR, William H. (1907), Cons. Engr., and Prof. Civ. Engrg., Columbia Univ., and 344 W. 72d St., New York, N. Y.
- BURSLEY, Joseph Aldrich (Junior, 1906), Asst. Prof. Mech. Engrg., Univ. of Mich., and *for mail*, 815 Forest Ave., Ann Arbor, Mich.
- BURT, Clayton R. (1909), Genl. Supt., Barber-Colman Co., 523 Fisher Ave., Rockford, Ill.
- BURTON, Frank H. (1900), 275 Grove St., Montclair, N. J.

- BURTON, Isaac Francis (1908), Asst. Supt., Victor Talking Mch. Co., and *for mail*, 5219 Walnut St., Philadelphia, Pa.
- BURTON, J. Harry (Junior, 1906), Carlson-Lusk Hardware Co., Boise, Idaho.
- BURWELL, Robert Turnbull (1901), Ch. Insp., Gulf Dept., Hartford Steam Boiler Insp. & Ins. Co., 833 Gravier St., and *for mail*, 4927 Perrier St., New Orleans, La.
- BUSH, Harold Montford (1894; 1905), Cons. Engr., Broad-Oak Bldg., and 55 N. 9th St., Columbus, O.
- BUSHNELL, Douglas S. (1909), Genl. Supt., Natl. Transit Co., 26 Broadway, New York, N. Y.
- BUSHNELL, Fred. N. (1891), Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass., and 234 Armington St., Providence, R. I.
- BUSHNELL, Leonard T. (Junior, 1906), Secy. and Treas., Mill Owners Sprinkler Co., 208 Columbia St., and *for mail*, 826 Broadway, Seattle, Wash.
- BUTCHER, Joseph J. (1892), Guiler-Gordon Engrg. Co., 442 Board of Trade Bldg., 10 Broad St., and *for mail*, 195 W. Brookline St., Boston, Mass.
- BUTTOLPH, Benjamin Gilbert (1905), V. P. and Engr., Mfrs.' Mut. Fire Ins. Co., 815 Banigan Bldg., and 181 Angell St., Providence, R. I.
- BUVINGER, George A. (1901; 1904), Hy. Engr., D'Olier Engrg. Co., 119-121 S. 11th St., Philadelphia, Pa.
- BYLLESBY, H. M. (1882), Pres., H. M. Byllesby & Co., Am. Trust Bldg., Chicago, Ill.
- CAINE, Wm. Phillips (1899; Associate, 1904), Steam Expert, Tenn. C. I. of R. R. Co., and *for mail*, P. O. Box 27, Ensley, Ala.
- CAIRD, Robert (1884), Managing Dir., Caird & Co., Ltd., and *for mail*, 56 Esplanade, Greenock, Scotland.
- CALDER, C. B. (1895), V. P. and Genl. Mgr., Toledo Ship Bldg. Co., 623 W. Bancroft St., Toledo, O.
- CALDER, John (1903), Mgr., Remington Typewriter Wks., and *for mail*, 8 Prospect Ave., Ilion, N. Y.
- CALDWELL, George B. (1902), Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, and *for mail*, 54 Van Sice Ave., Yonkers, N. Y.
- CALDWELL, John A. (1907), 220 Broadway, New York, N. Y., and *for mail*, 55 Walnut St., Montclair, N. J.
- CALEY, Charles J. (1906), Wks. Mgr., Peterborro Lock Co., and *for mail*, Oriental Hotel, Peterborro, Ont., Canada.
- CAMERON, Barton H. (1903), Pres., Cameron Stove Co., and *for mail*, 116 N. Morris St., Richmond, Va.
- CAMP, Geo. E. (1893), Supt., Internat'l Heater Co., and 7 Noyes St., Utica, N. Y.
- CAMPBELL, Andrew C. (1885; 1889), Secy. and Supt., E. J. Manville Mch. Co., 574 E. Main St., and *for mail*, 186 Hillside Ave., Waterbury, Conn.
- CAMPBELL, Geo. Watts (1883), Mech. Engr. and Mill Arch., 171 Broad St., and 185 Broad St., Newark, N. J.

- CAMPBELL, Gordon (Junior, 1891), V. P. and Genl. Mgr., York Rys. Co., 27 W. Market St., York, Pa.
- CAMPBELL, Gordon M. (1906), Supt., Power Apparatus Shops, Western Elec. Co., Chicago, Ill.
- CAMPBELL, Jeremiah (Associate, 1896), 38 Kilby St., Boston, Mass.
- CANBY, Harry Beaver (Junior, 1904), Second V. P., Crawford, McGregor & Canby Co., and *for mail*, 308 Central Ave., Dayton, O.
- CANNIFF, William Lester (1907), M. M., T. A. Gillespie Co., High Falls, Ulster Co., N. Y.
- CAPEN, Thomas W. (1883), Engr., Crushing and Cement Dept., Allis-Chalmers Co., and 418 28th St., Milwaukee, Wis.
- CAPP, John Allen (1901), Ch. of Test Lab., Genl. Elec. Co., and *for mail*, 1514 Union St., Schenectady, N. Y.
- CARACRISTI, Virginus Z. (1904; 1907), 2205 Hanover Ave., Richmond, Va.
- CARD, Frederick M. (1906), Mech. Engr., Singer Mfg. Co., and *for mail*, 116 Edna Ave., Bridgeport, Conn.
- CAREW, Clement J. (1902), Supt. and Genl. Mgr., Chicago Pneu. Tool Co., 1001 Liberty St., Franklin, Pa.
- CARHART, Alfred B. (1907), Supt., Crosby Steam Gage & Valve Co., Boston, and *for mail*, 10 Roland St., Charlestown, Mass.
- CARLE, Nathaniel A. (1907), 1020 E. Demy Way, Seattle, Wash.
- CARLSSON, Carl A. V. (1905), P. O. Box 288, Auburn, N. Y.
- CARLTON, Willard G. (1906), Supt. of Power, Elec. Div., N. Y. C. & H. R. R., Grand Central Sta., New York, N. Y.
- CARNEGIE, Andrew (1890; Honorary, 1907), 2 E. 91st St., New York, N. Y.
- CARPENTER, Alfonso H. (Associate, 1895), V. P., Acme Mch. Co., 4533 St. Clair Ave., and *for mail*, 11414 Mayfield Road, S. E., Cleveland, O.
- CARPENTER, Allan O. (Associate, 1909), Ch. Draftsman, Chicago Pneu. Tool Co., and *for mail*, Box 271, Franklin, Pa.
- CARPENTER, Charles U. (1907), Pres., Herring-Hall-Marvin Safe Co., 400 Broadway, New York, N. Y.
- CARPENTER, Harold Eugene (1908), Supt. Constr., Astoria Light, Heat & Power Co., Astoria, and *for mail*, The Courtland, 1219 Madison Ave., New York, N. Y.
- CARPENTER, Henry Albert (1893; 1899), V. P., Riter-Conley Mfg. Co., 56 Water St., Pittsburg, and *for mail*, R. F. D. 3, Sewickley, Pa.
- CARPENTER, James M. (1907), Pres., Treas. and Genl. Mgr., J. M. Carpenter Tap & Die Co., and 199 West Ave., Pawtucket, R. I.
- CARPENTER, Rolla C. (1883), Vice-President, 1908-1910; Prof. Exper. Engrg., Sibley College, Cornell Univ., and 125 Eddy St., Ithaca, N. Y.
- CARRIER, Willis H. (Associate, 1905), Ch. Engr., Buffalo Forge Co., and *for mail*, 1350 Amherst St., Buffalo, N. Y.
- CARROLL, Alexander W. (1905), 524 Westminster Ave., Elizabeth, N. J.
- CARROLL, Elbert Henry (1900), Supt., Morgan Const. Co., 21 Lincoln St., and *for mail*, Rutland Terrace, Worcester, Mass.

- CARROLL, Lafayette D. (1888), Life Member; Mech. Engr., care Humphreys & Glasgow, 38 Victoria St., London, S. W., England.
- CARSE, David Bradley (1889), Pres., David B. Carse & Co., City Investing Bldg., New York, N. Y.
- CARSE, John B. (1903), Member Advisory Com., U. S. Steel Corp., 71 Broadway, and Riverdale-on-Hudson, New York, N. Y.
- CARSTENS, Alexander Bismarck (1905), Genl. Mgr., Cia. Minera del Sur. S. A., Sola de Vega, Mina San Pablo, Teojomuleo, and *for mail*, Apartado Postal 74, Oaxaca, Mexico.
- CARTER, Henry W. (1892; 1903), Mech. Expt., 635 Monadnock Block, and 6132 Winthrop Ave., Chicago, Ill.
- CARY, Albert A. (1889), Cons. Mech. Engr., 95 Liberty St., New York, N. Y.
- CASE, Albert H. (Junior, 1903), Supt., Santa Fé Gold & Copper Min. Co., San Pedro, New Mexico.
- CASE, Milo McClelland (Junior, 1909), Ch. Draftsman, Champion Mchy. Co., and 502 Union St., Joliet, Ill.
- CASE, Theo Newton (1891; 1896), Klamath Falls, Ore.
- CASH, Arthur Wise (1899), Mech. Engr. and Mfr., Pressure Regulating and Spec. Valves, 313 Market St., Newark, N. J.
- CASLER, Herman (Junior, 1901), Mfr., Canastota, N. Y.
- CASTANEDO, Walter (1907; 1909), Member of Firm, Glenny & Castanedo, 1125-27 Maison Blanche Bldg., and *for mail*, 1514 Peters Ave., New Orleans, La.
- CASTLE, John Samuel Parsons (Junior, 1899), Ch. Engr., Benedict & Burham Mfg. Co., and 332 W. Grove St., Waterbury, Conn.
- CASTLE, Samuel Northrup (Associate, 1909), Genl. Elec. Co., 30 Church St., New York, N. Y.
- CATHCART, William L. (1899), Gwynedd Valley, Pa.
- CATLIN, Abel Delancy (1906; 1907), Pres., Chattanooga Mchy. Co., and 612 Vance Ave., Chattanooga, Tenn.
- CATLIN, William Lyle (Junior, 1906), Supt., V. P., Chattanooga Mchy. Co., and 608 Kirby Ave., Chattanooga, Tenn.
- CATTELL, William A. (1901), Cons. Engr., Foxcroft Bldg., San Francisco, Cal.
- CAUM, Samuel L. (Junior, 1909), Mech. Engr., Edison Portland Cement Co., and *for mail*, 111 W. 4th St., South Bethlehem, Pa.
- CHACE, William W. (1908), Mech. Engr., Cleveland Twist Drill Co., and *for mail*, 9716 Logan Court, Cleveland, O.
- CHADWICK, Lee S. (1899; 1909), Pres. and Genl. Mgr., Chadwick Engrg. Wks., and 407 Franklin St., Pottstown, Pa.
- CHALKLEY, Henry G. (1908), Mgr. and Engr., North Am. Land & Timber Co., and 920 Kirby St., Lake Charles, La.
- CHALLEN, Paull Jewill (Associate, 1897), Cons. Engr., Supt., Tioronda Hat Wks., and *for mail*, Fishkill-on-Hudson, N. Y.
- CHALMERS, William J. (Associate, 1902), Pres., Commer. Nat. Safe Deposit Co., 1733 Commer. Natl. Bank Bldg., and 23 Lake Shore Drive, Chicago, Ill.
- CHAMBERLAIN, Geo. E. (1907), Pres., Lewell Mfg. Co., 1402 Mich. Ave., Chicago, Ill.

- CHAMBERLAIN, Harry M. (1907), N. Y. C. & H. R. R. R., and *for mail*, 57 Main St., West Springfield, Mass.
- CHAMBERLAIN, Paul Mellen (1890; 1899), Cons. Engr., 1522 Marquette Bldg., and 2817 Linden Court, Chicago, Ill.
- CHAMBERLIN, William F. (Associate, 1907), Secy. and Genl. Mgr., Dayton Hy. Mch. Co., and 448 E. Huffman Ave., Dayton, O.
- CHAMBERS, F. G. (1902), Supt., Straight Line Eng. Co., and *for mail*, 111 Davis St., Syracuse, N. Y.
- CHAMBERS, Frank Ross, Jr. (Junior, 1898), V. P., Duplex Metal Co., 208 Fifth Ave., New York, N. Y.
- CHAMBERS, Norman C. (Junior, 1905), Sales Dept., Niles-Bement-Pond Co., 111 Broadway, New York, N. Y.
- CHAMPION, Harry W. (1904), Pres., Newton Mch. Tool Wks., Inc., 24th and Vine Sts., and *for mail*, 2018 Mt. Vernon St., Philadelphia, Pa.
- CHANDLER, Clarence Austin (1900), Mech. Engr., 402 Penn Mut. Bldg., 24 Milk St., Boston, and East Bridgewater, Mass.
- CHANDLER, Irving A. (Junior, 1899), Cons. Engr., 120 Liberty St., and 107 W. 82d St., New York, N. Y.
- CHANDLER, Sellers McKee (Junior, 1905), Pittsburg Valve & Fittings Co., Barberton, O.
- CHAPMAN, David Albert (Junior, 1908), Supt., Estate E. S. Converse Co., 101 Milk St., Boston, and *for mail*, 163 Grover Ave., Winthrop Highlands, Mass.
- CHAPMAN, Frank T. (1909), Rep., Vento Dept., Am. Radiator Co., Rm. 603, 104 W. 42d St., New York, N. Y., and Montclair, N. J.
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- CRUIKSHANK, Barton (1889; 1890), Cons. Engr., Morristown, N. Y.
- CULLEN, James K. (1886), Pres., Niles Tool Wks., and 315 Dayton St., Hamilton, O.
- CULLINGWORTH, Geo. R. (1884), Mech. Engr., Garvin Mch. Co., Spring and Varick Sts., New York, N. Y.
- CUMMINGS, Edgar C. (1906), Gooding, Lincoln Co., Idaho.
- CUMMINGS, Orrie P. (1899), Supt. of Constr., A. B. See Elec. Elev. Co., 220 Broadway, and 104 W. 58th St., New York, N. Y.
- CUMMINGS, Wm. Warren (1905), Asst. Mgr., Commer. Dept., Boston Cons. Gas Co., 24 West St., Boston, and *for mail*, 15 Winter St., Woburn, Mass.
- CUNNINGHAM, Chas. G. (Associate, 1908), Engr., N. Y. C. & H. R. R. Co., Port Morris Power Sta., and *for mail*, 7 Perot St., Kingsbridge, New York, N. Y.
- CUNNINGHAM, Robert Henry, Jr. (Junior, 1907), Salesman, Cleveland Office, Ingersoll-Rand Co., and *for mail*, 1462 Worthington St., Columbus, Ohio.
- CUNNINGHAM, Thos. (1899), Treas. and Genl. Mgr., Cunningham Iron Co., Summer, B and Fargo Sts., Boston, Mass.
- CURTIS, Edma H., Jr. (Junior, 1901), Supt. of Constr., Pittsburg Plate Glass Co., Crystal City, Mo.
- CURTIS, Greely S. (1897; 1904), Cons. Engr., Fire Dept. Expt., 73 Maiden Lane, New York, and Rye, N. Y.

- CURTIS, Ralph E. (1888; 1901), Edison Elec. Illuminating Co. of Boston, 39 Boylston St., Boston, and *for mail*, 15 Allen St., West Roxbury, Mass.
- CUSHING, Geo. H. (1891), Genl. Supt., H. B. Smith Co., and *for mail*, 37 Broad St., Westfield, Mass.
- CUSHMAN, Arthur Wesley (Junior, 1905), Div. Supt., Swift & Co., Chicago, Ill.
- CUSHMAN, Frank, Jr. (Junior, 1907), Inst. Mch. Tool Work, and Dir., Dept. Manual Training, H. S., and *for mail*, 3012 E. 27th St., Kansas City, Mo.
- CUSHMAN, Herbert E. (Associate, 1898), Treas. and Genl. Mgr., Morse Twist Drill & Mch. Co., and 144 Hawthorn St., New Bedford, Mass.
- CUTTER, George Albert (1896; 1904), Genl. Mgr., Cell Drier Mch. Co., and 47 Prospect St., Taunton, Mass.
- DAGGETT, Herbert Chapin (1907), Manager N. E. branch office, S. Morgan Smith Co., 176 Federal St., Boston, Mass.
- DALE, Orton G. (1894; 1909), Mgr., Mead-Morrison Mfg. Co., 149 Broadway, New York, N. Y., and Plainfield, N. J.
- DALLETT, Elijah (1900), Mech. Engr., Midvale Steel Co., and *for mail*, Chestnut Hill, Philadelphia, Pa.
- DALETT, W. P. (1888), Life Member; Hyd. Engr. and Contr., 49 N. 7th St., Philadelphia, and Media, Pa.
- DALLY, John Horton (1903), Ch. Engr., N. Y. Stock Exch., 10 Broad St., New York, and 77 Glenwood Ave., East Orange, N. J.
- DALTON, William (1902), Ch. Engr., Am. Loco. Co., and 41 Wendell Ave., Schenectady, N. Y.
- DAM, William Valdemar (1906), Asst. Genl. Mgr. and Engr., Thompson & Co., and *for mail*, Kalimna, Hall St., Castlemaine, Victoria, Australia.
- DAMON, John H. (Associate, 1908), M. M. and Expt. on Rope Transmission, Plymouth Cordage Co., North Plymouth, and 258 Court St., Plymouth, Mass.
- DAMON, Walter Henry (1909), Supt. of Generating, United Elec. Light Co., 87 Greenwood St., Springfield, Mass.
- DANFORTH, N. L. (Junior, 1903), Treas., John W. Danforth Co., Piping Contrs., 70-72 Ellicott St., Buffalo, N. Y.
- DANIELS, Fred Harris (1886), Vice-President, 1902-1904; Life Member; Ch. Engr. Am. Steel & Wire Co., 94 Grove St., and *for mail*, 214 Salisbury St., Worcester, Mass.
- DANKS, Alfred C. (Junior, 1907), Ch. Engr., Gas Engines, Edgar Thomson Wks., Carnegie Steel Co., Braddock, and *for mail*, 331 West St., Wilksburg Sta., Pittsburg, Pa.
- DARBEE, William (Junior, 1900), Asst. Genl. Mgr., Cons. Gas, Elec. Light & Power Co. of Baltimore, Baltimore, Md.
- DARBY, John (1907), Cons. and Designing Engr., 136 Liberty St., N. Y., and *for mail*, 340 Springfield Ave., Summit, N. J.
- DARBY, John Henry (1901), Manor House, Brigg, Lincolnshire, England.

- DARLING, Philip Grenville (Associate, 1906), Mech. Engr., Manning, Maxwell & Moore, Inc., 85-89 Liberty St., New York, N. Y.
- DARLINGTON, Philip J. (1904), The Roto Co., P. O. Box 1043, Hartford, and 1179 Farmington Ave., West Hartford, Conn.
- DARRIN, David H. (1892; 1900), Cons. Engr., 131 Liberty St., and Engrs.' Club, 32 W. 40th St., New York, N. Y.
- DART, William Crary (Associate, 1907), Pres., R. I. Tool Co., and 16 Stimson Ave., Providence, R. I.
- DASHIELL, W. W. (1890), Pres. and Genl. Mgr., N. Y. Lubricating Oil Co., V. P., Bayway Refining Co., 116 Broad St., and 848 St. Nicholas Ave., New York, N. Y.
- DAUCHY, Samuel Edwin (Junior, 1903), Bethel, Conn.
- DAUGHERTY, Frank (Junior, 1909), Cons. Engr., Scofield Engrg. Co., 1324 Arcade Bldg., and *for mail*, 2109 Chestnut St., Philadelphia, Pa.
- DAUGHERTY, Samuel Bovard (1905), Ch. Draftsman, Gas Eng. Dept., Snow Steam Pump Wks., and *for mail*, 93 Lafayette Ave., Buffalo, N. Y.
- DAVENPORT, E. W. (1902), Maxwell-Briscoe Motor Co., Tarrytown, N. Y.
- DAVEY, Warren (Junior, 1899), Mech. Engr., Ch. Engr., Colgate & Co., 55 York St., and 123 Sipp Ave., Jersey City, N. J.
- DAVIDSON, Archer (Associate, 1907), Dist. Engr., Westinghouse Mch. Co., 1326 Candler Bldg., Atlanta, Ga.
- DAVIDSON, Charles Jackson (1904), Ch. Engr. of P. P., Milwaukee Elec. Ry. & Light Co., Genl. Supt., Milwaukee Central Heat. Co., and 811 Shephard Ave., Milwaukee, Wis.
- DAVIDSON, J. Brownlee (Junior, 1905), Prof. Agri. Engrg., Iowa State College, and 719 Hoggatt Ave., Ames, Iowa.
- DAVIDSON, Marshall T. (1886), Pres., M. T. Davidson Co., 43-45 Keap St., and 108 St. James Pl., Brooklyn, N. Y.
- DAVIS, A. C. (1909), care Pa. Lines, Wellsville, O.
- DAVIS, Charles Ethan (1896), Genl. Mgr., Warner Gear Co., Muncie; Ind.
- DAVIS, Chas. Henry (1890), South Yarmouth, Mass.
- DAVIS, Chester B. (1890), 3353 Sixth Ave., Troy, N. Y.
- DAVIS, Edwin Halsted (Junior, 1907), Ch. Draftsman, M. T. Davidson Co., and *for mail*, 256 Martense St., Brooklyn, N. Y.
- DAVIS, George H. (Junior, 1907), Designer, Inspr., Pub. Wks. Office, Brooklyn Navy Yard, and *for mail*, 949 E. 34th St., Brooklyn, N. Y.
- DAVIS, Herbert R. (Junior, 1901), Asst. to Genl. Mgr., Kan. Natural Gas Co., Independence, Kan.
- DAVIS, Joseph P. (1880), 332 Palisade Ave., Yonkers, N. Y.
- DAVIS, Robt. G. (1900; 1902), Cons. and Constr. Engr., 454 48th St., Brooklyn, N. Y.
- DAVIS, Thomas B. (Associate, 1907), Ch. Engr., Cleveland Crane & Engrg. Co., Wickliffe, and *for mail*, 65 Stanwood Rd., East Cleveland, O.
- DAVISON, Clarence M. (Junior, 1909), Mech. Engr., N. I. M. & E. Co., Newburgh, N. Y.

- DAVOL, George K. (1904), Mech. Engr., 503 Market St., San Francisco, Cal.
- DAVOUD, Vahram Y. (1906; Associate, 1909), Elec. Engr., Telluride Power Co., Provo, Utah, and Univ. Club, Buffalo, N. Y.
- DAWES, Herbert N. (1902), V. P., Nightingale & Childs Co., Pres., Cerro Gordo Fruit Co., Secy., Dominion Asbestos Co., Ltd., 205 Congress St., Boston, and 100 Orange St., Chelsea, Mass.
- DAWES, Robert (1890; 1896), V. P. & Supt., Haskell, Dawes Mch. Co., Erie and Trenton Aves., Philadelphia, and 5014 Penn St., Frankford, Philadelphia, Pa.
- DAWLEY, Clarence A. (Junior, 1904), Cons. Engr., 323 W. 77th St., New York, N. Y., and *for mail*, 411 W. 5th St., Plainfield, N. J.
- DAY, Charles (Junior, 1902), Member of Firm, Dodge & Day, Engrs., Wash. Bldg., 608 Chestnut St., Philadelphia, and 5021 Schuyler St., Germantown, Philadelphia, Pa.
- DAY, Irvin W. (Junior, 1908), Secy., Am. Mail S. S. Co., 100 Broadway, and 525 Park Ave., New York, N. Y.
- DEACON, Ralph Woolman (Associate, 1907), Asst. Supt., U. S. Metals Refining Co., Chrome, and 225 Murray St., Elizabeth, N. J.
- DEAN, Arthur M. (Junior, 1907), Asst. Mech. Engr., Matheson Motor Car Co., Wilkes-Barre, and Plerce St., Kingston, Pa.
- DEAN, Edmund Willard (1905), Mech. Engr., Kidder Press Co., and *for mail*, 137 Silver St., Dover, N. H.
- DEAN, Francis W. (1883), Vice-President, 1895-1897; Mill Engr. and Arch., Exch. Bldg., 53 State St., Boston, Mass.
- DEARBORN, Wm. Langdon (Junior, 1892), Secy. and Treas., Eastwick Engrg. Co., Ltd., 42 Broadway, New York, N. Y.
- DE BAUFRE, Wm. L. (Junior, 1909), Instr., Dept. Engrg., Baltimore Poly. Inst., and *for mail*, 2035 W. North Ave., Baltimore, Md.
- DE CAZENOVE, Louis A., Jr. (Junior, 1905), Mech. Engr., Engrg. Dir., E. I. du Pont de Nemours Powder Co., and *for mail*, The Wilmington, Delaware Ave., Wilmington, Del.
- DECKER, Edward P. (1906), Factory Mgr., Kemiweld Can Co., and 79 Pingree Ave., Detroit, Mich.
- DEEDS, Edwd. Andrew (Associate, 1900), Second V. P. and Asst. Mgr., Natl. Cash Register Co., and *for mail*, 319 Central Ave., Dayton, O.
- DE HAVEN, Irvin C. (Junior, 1907), Dist. Mgr., A. Sorge, Jr., Co., 525 State Life Bldg., Indianapolis, Ind.
- DE LAMATER, Oakley R. (1902), Secy., Mitchell Motor Co., of N. Y., 1876 Broadway, New York, N. Y., and Englewood, N. J.
- DELANCEY, Darragh (1891; 1908), Wks. Mgr., Waterbury Buckle Co., and 52 Pine St., Waterbury, Conn.
- DELANY, Chas. H. (1907), Engr., Babcock & Wilcox, Bayonne, and *for mail*, 411 Chilton St., Elizabeth, N. J.
- DE LAVAL, Carl Geo. (1886), Genl. Mgr., Henry R. Worthington Hyd. Wks., Harrison, and *for mail*, 136 Highland Ave., Orange, N. J.
- DE LEEUW, Adolph L. (1901), Mech. Engr., Cincinnati Milling Mch. Co., Cincinnati, and *for mail*, 425 Terrace Ave., Hamilton, O.

- DEMING, Wm. H. (1897), Mech. Engr., Continental Iron Wks., and 541 Eastern Parkway, Brooklyn, N. Y.
- DENISON, Charles S. (1909), Prof. Stereotomy, Mechanism and Drawing, Univ. of Mich., and *for mail*, 502 E. Huron St., Ann Arbor, Mich.
- DENNISON, Wilburn Norris (1905), Mech. Engr., Victor Talking Mch. Co., Camden, and *for mail*, Merchantville, N. J.
- DENSMORE, Edward D. (Associate, 1898), Cons. Engr., Densmore & LeClear, 88 Broad St., and 52 River St., Boston, Mass.
- DENTON, James E. (1881), Manager, 1889-1892; Prof. Engrg. Practice, Stevens Inst. of Tech., Hoboken, and 18 Summit St., East Orange, N. J.
- DE PUY, C. E. (1891; 1903), Prof. Mech. Design and Constr., Lewis Inst., Chicago, and *for mail*, 411 N. Elmwood Ave., Oak Park, Ill.
- DETRICK, Jacob S. (1892), Pres., Detrick & Harvey Mch. Co., 508 E. Preston St., and 205 E. Preston St., Baltimore, Md.
- DEUEL, Harry Austin (1904), Ch. Engr., Colo. Fuel & Iron Co., 205 W. Orman Ave., Pueblo, Colo.
- DE VED, Horace W. (Junior, 1908), Asst. to Engr., Westchester Ltg. Co., Mt. Vernon, and 127 Franklin Ave., New Rochelle, N. Y.
- DE WOLF, John O. (1901), Mech. and Mill Engr., 159 Devonshire St., Boston, and 36 Hawthorn St., Cambridge, Mass.
- DE WOLFE, Edwd. Chas. (1899; Associate, 1906), Member of Russell-De Wolfe Co., 355 Dearborn St., and 586 Bryant Ave., Chicago, Ill.
- DEWSON, Edwd. Henry (1889; 1898), Res. Engr., Westinghouse Air Brake Co., 165 Broadway, and 209 W. 81st St., New York, N. Y.
- DICKERMAN, Wm. Carter (1899; 1907), V. P., Am. Car & Fdy. Co., 165 Broadway, and 809 Madison Ave., New York, N. Y.
- DICKEY, Wm. D. (1884), Cons. Engr., Rm. F 20, Produce Exchange, and 217 W. 106th St., New York, N. Y.
- DICKIE, Geo. W. (1892), Manager, 1895-1898; Rm. 722, Marvin Bldg., 24 Cal. St., and 750 Ashbury St., San Francisco, Cal.
- DICKINSON, William Noble (1906), Mgr., Foreign Dept. Otis Elev. Co., 17 Battery Pl., New York, and 2246 Clarendon Rd., Brooklyn, N. Y.
- DIEDERICH, Herman (Junior, 1904), Prof. Exper. Engrg., Cornell Univ., and *for mail*, 610 Stewart Ave. Ext., Ithaca, N. Y.
- DIEFENDORF, Willis H. (1904), Ch. Engr., New Process Raw Hide Co., and *for mail*, 115 Baker Ave., Syracuse, N. Y.
- DIEMER, Hugo (1904), Prof. Industrial Engrg., Pa. State College, State College, Pa.
- DIETZ, Carl F. (Junior, 1903), Cons. Engr., Dietz & Keedy, 6 Beacon St., Boston, and *for mail*, 306 Main St., Melrose, Mass.
- DILLARD, James B. (1907; Associate, 1909), Capt. Ordnance Dept., U. S. A., War Dept., and 1927 S St., N. W., Washington, D. C.
- DILLON, Edward L. (1909), Rep., Fairbanks, Morse & Co., and 1330a Clara Ave., St. Louis, Mo.
- DILLON, Frederick N. (1902), Treas., D. M. Dillon Steam Boiler Wks., and 16 Prospect St., Fitchburg, Mass.

- DIMAN, Geo. Henry (1904), Cons. Engr., Wood Worsted Mill, Lawrence, and *for mail*, 62 Bailey St., South Lawrence, Mass.
- DINGEE, W. W. (1886), Ret. Mech. Engr., 5811 Madison Ave., Chicago, Ill.
- DINKEL, Geo., (1890; 1897), Cons. Engr., Am. Sugar Refining Co., 117 Wall St., New York, N. Y., and *for mail*, 35 Highland Ave., Jersey City, N. J.
- DINKEY, A. C. (1902), Pres., Carnegie Steel Co., Carnegie Bldg., and Ellsworth and Amberson Aves., Pittsburg, Pa.
- DIRKS, Henry B. (Junior, 1907), Instr. in Mech. Engrg., Univ. of Ill., 307 Engrg. Hall, Urbana, and 210 W. Park St., Champaign, Ill.
- DISERENS, Paul (Junior, 1908), Engr. of Tests, Laidlaw-Dunn-Gordon Co., and *for mail*, 2711 Price Ave., Price Hill, Cincinnati, O.
- DIXON, Charles F. (Junior, 1903), Constr. Engr., 5705 14th Ave., Brooklyn, N. Y.
- DIXON, Robert M. (1884), Pres., Safety Car Htg. & Ltg. Co., 2 Rector St., New York, N. Y., and 21 Walnut St., East Orange, N. J.
- DIXON, Walter Frank (1889; 1894), Mgr., Singer Mfg. Co.'s Wks., Podolsk, Moscow Govt., Russia.
- DOANE, Dr. Wm. H. (1885), 601 Fourth Natl. Bank Bldg., and 2223 Auburn Ave., Cincinnati, O.
- DOBLE, Wm. A. (1891), Pres., Abner Doble Co., Fremont and Howard Sts., and 2611 Broadway, San Francisco, Cal.
- DOBSON, Frank (1906), 319-321 E. 53d St., New York, N. Y.
- DOBSON, W. J. M. (1881), Cons. Mech. Engr., 398 Adelphi St., Brooklyn, N. Y.
- DOCK, Herman (1889), Mech. Engr., Westerly, R. I.
- DODDS, William B. (Junior, 1907), Empire Dist. Elec. Co., and *for mail*, Flat 52, The Alexander, Walnut Hills, Cincinnati, O.
- DODDS, Wm. E. (1891), Genl. Mgr., Standard Cast Iron Pipe & Fdy. Co., Bristol, Pa.
- DODGE, Albert C. (1908), Supt., Western Elec. Co., Hawthorne, and *for mail*, 419 N. Grove Ave., Oak Park, Ill.
- DODGE, Austin R. (1907), Engr., Exper. Steam Turbine Dept., Genl. Elec. Co., Schenectady, N. Y.
- DODGE, James Mapes (1884), Manager, 1891-1894; Vice-President, 1900-1902; President, 1903; Chairman of Bd., Link-Belt Co., and Pres., J. M. Dodge Co., Philadelphia and McKean Aves., Philadelphia, Pa.
- DODGE, Kern (Junior, 1902), Member of Firm, Dodge & Day, Wash. Bldg., 608 Chestnut St., Philadelphia, and 5135 Pulaski Ave., Germantown, Philadelphia, Pa.
- DODWELL, John G. (Junior, 1907), Ch. Engr., 14th St. Store, and *for mail*, 51 Bank St., New York, N. Y.
- DOEBLER, Chas. H. (1900), Genl. Mgr., Lima Brake Shoe Co., and 127 S. Jamison Ave., Lima, O.
- DOELLING, Louis Karl (1906), V. P. and Genl. Supt., De La Vergne Mch. Co., foot E. 138th St., New York, and 26 Colonial Pl., New Rochelle, N. Y.

- DOHERTY, Henry L. (1903), Pres., Denver Gas & Elec. Co., 60 Wall St., New York, N. Y.
- DOLLAR, William M. (1896; 1903), Cons. Mech. Engr., 90 Erie Co. Bank Bldg., and 421 Baynes St., Buffalo, N. Y.
- DONALDSON, Stuart A. (Junior, 1909), Engr., Westinghouse, Church, Kerr & Co., New York, N. Y., and *for mail*, 106 Donaldson Ave., Rutherford, N. J.
- DONNELLY, William T. (1903), Cons. Engr., 135 Broadway, New York, N. Y.
- DONOVAN, Wm. F. (1883), Pres., Blackstaff & Co., 1332 Walnut St., Philadelphia, Pa.
- D'ORNELLAS, T. V. (Associate, 1907), Cons. Elec. Engr., Peruvian Govt., Calle de Lima 15, Chorrillos, Peru, S. A.
- DORNER, Frederick Harry (Junior, 1907), Mech. Engr., Bayley Mfg. Co., and *for mail*, 881 6th Ave., Milwaukee, Wis.
- DOTY, Paul (1891; 1904), V. P. and Genl. Mgr., St. Paul Gas Light Co., and 286 Laurel Ave., St. Paul, Minn.
- DOUD, Arthur T. (Junior, 1907), Mech. Engr., Hale-Kilburn Metal Co., Glenwood Ave. and 19th St., Philadelphia, and 6365 Sherman St., Germantown, Philadelphia, Pa.
- DOUGHTY, A. J., (1902), Factory Mgr., Burroughs Adding Mch. Co., and *for mail*, 45 Virginia Ave., Detroit, Mich.
- DOUGHTY, George A. (Associate, 1903), Secy., Logan Iron Wks., 52 Commercial St., and *for mail*, Box 6, Sta. G, also 710 Putnam Ave., Brooklyn, N. Y.
- DOUGHTY, Wm. F. (Junior, 1899), Mech. Engr., 17 Beach St., Flushing, L. I., N. Y.
- DOUGLAS, Courtney Carlos (1904; Associate, 1908), Steam Turbine Engr., Genl. Elec. Co., 84 State St., Boston, Mass.
- DOUGLASS, Wm. M. (1884), Glamorgan, Wise Co., Va.
- DOW, Alex (1895), Vice-President, 1906-1908; V. P. and Genl. Mgr., Edison Ill. Co., 18 Wash. Ave., and 50 Garfield Ave., Detroit, Mich.
- DOW, Carl Stephen (1899; Associate, 1905), Publicity Engr., with Walter B. Snow, 170 Summer St., Boston, and *for mail*, 24 Milton Sq., Hyde Park, Mass.
- DOWNE, Henry S. (1886), Managing Dir., Natl. Radiator Co., Ltd., 439-441 Oxford St., W., and 12 Belsize Park, N. W., London, England.
- DOWST, F. B. (1892), B. F. Sturtevant Co., Hyde Park, and West Roxbury, Boston, Mass.
- DOYING, William Albert E. (1907), Inspg. Engr., Isthmian Canal Commission, Mills Bldg. Annex, and 1627 Lamont St., Washington, D. C.
- DRAVO, Geo. P. (1899; 1906), Pres. and Treas., Power Improvement Co., 510 Enterprise Bldg., and 297 Farwell Ave., Milwaukee, Wis.
- DREWETT, Wm. A. (1888), Supt., M. T. Davidson Co., 43-53 Keap St., and *for mail*, 524 Lafayette Ave., Brooklyn, N. Y.
- DREYFUS, Edwin D. (Junior, 1905), Westinghouse Mch. Co., East Pittsburg, and 401 Whitney Ave., Wilkesburg, Pa.

- DREYFUS, Theo. Frank (Junior, 1903), Supt. M. P., Buffalo & Susquehanna Ry., Galetton, Pa.
- DRYSDALE, Dr. W. A. (1890), Cons. Elec. Engr., 415 Hale Bldg., Juniper and Chestnut Sts., Philadelphia, Pa.
- DUBOIS, A. Jay (1881), Life Member; Prof. Civ. Engrg., Sheffield Scientific Sch., Yale Univ., New Haven, Conn.
- DU BOSQUE, F. L. (1892), Asst. Engr., Floating Equip., Pa. R. R. Co., Jersey City, and South Orange, N. J.
- DU BRUL, Ernest F. (Associate, 1900), V. P., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St., and cor. Beecher and Melrose Ave., Cincinnati, O.
- DU BRUL, Napoleon (1900), Pres., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St., and Colerain Ave., Sta. A, Cincinnati, O.
- DUCAS, Charles (Junior, 1903), Pres., Ducas Chem. Co., and Secy. and Treas., Ducas & Co., Rm. 418, 30 Church St., and 561 W. 144th St., New York, N. Y.
- DUCOMMUN, Edwd. (1898; 1903), Asst. Ch. Engr., Am. Sugar Refining Co., and *for mail*, 179 Harrison Ave., Jersey City, N. J.
- DUDEN, Emil G. (Junior, 1907), Ch. Engr., W. B. Scaife & Sons Co., Oakmont, Pa.
- DUERNER, Henry L., Jr. (1901), Mech. Engr., 78 Tacoma St., Rochester, N. Y.
- DULL, Raymond Wm. (1908), Ch. Engr. and Supt., Stephens-Adamson Mfg. Co., and *for mail*, 464 Garfield Ave., Aurora, Ill.
- DUNBAR, James Horace (1907), Mech. Engr., Grasselli Chemical Co., Cleveland, O.
- DUNBAR, William Otis (1904), Asst. Engr., Test Dept., Pa. R. R., and 1216 13th St., Altoona, Pa.
- DUNCAN, Albert Greene (1909), Treas., Chicopee Mfg. Co., and *for mail*, P. O. Box 2966, Boston, Mass.
- DUNCAN, J. D. E. (1903), Life Member; Managing. Engr. with Sanderson & Porter, 52 William St., New York, N. Y.
- DUNCOMBE, Frederic H. (Junior, 1909), Engr. and Draftsman, Allis-Chalmers Co., 71 Broadway, New York, N. Y.
- DUNHAM, George W. (1908), V. P. and Cons. Engr., Chalmers-Detroit Motor Co., and 155 W. Euclid Ave., Detroit, Mich.
- DUNKIN, William Van (1909), Instr., Mch. Design, Univ. of Ill., and *for mail*, 607 W. High St., Urbana, Ill.
- DUNKLE, H. Edw. (Associate, 1907), Draftsman, Semet-Solvay Co., and *for mail*, Solvay Club House, Syracuse, N. Y.
- DUNLAP, Thaddeus C. (1908), Pres., Columbus Pneu. Tool Co., Box 523, and 946 Madison Ave., Columbus, O.
- DUNN, Charles (1897), Hanover, N. H.
- DUNN, Harry A. (Junior, 1907), Mgr., Centrifugal Dept., Henry R. Worthington, Harrison, and *for mail*, 53 Morton Pl., East Orange, N. J.
- DUNN, Kingsley G. (Associate, 1907), V. P., Hunt, Mirk & Co., Inc., 141 Second St., San Francisco, Cal.
- DU PONT, Coleman (1906), Pres., E. I. du Pont de Nemours Powder Co., Wilmington, Del.

- DURAND, Nelson Crawford (1889), Mgr. of Sales, Edison Business Phonograph Co., Orange, and 384 Roseville Ave., Newark, N. J.
- DURAND, Wm. F. (1883), Prof. Mech. Engrg., Stanford Univ., Stanford University P. O., Cal.
- DURANT, Aldrich (Junior, 1906), Supt., Raymond Concrete Pile Co., 140 Cedar St., New York, N. Y., and 9 Lowell St., Cambridge, Mass.
- DURFEE, Walter C. (Junior, 1908), Exper. Engr., Walworth Mfg. Co., South Boston, and *for mail*, 40 Eliot St., Jamaica Plain, Mass.
- DURLEY, Richard John (1899), Prof. Mech. Engrg., McGill Univ. and 20 Summerhill Ave., Montreal, Canada.
- DU VILLARD, Henry A. (1884), Mech. Engr., 173 George St., East Side Sta., Providence, R. I.
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- DWYER, Emmet (Junior, 1907), Second Asst. Supt., Michigan Stove Co., and *for mail*, 692 Jefferson Ave., Detroit, Mich.
- DYER, Frank Lewis (Associate, 1901), Pres., Natl. Phonograph Co., Orange, and Montclair, N. J.
- DYER, Robert A., Jr. (1908), Asst. Genl. Mgr., Rochester, Syracuse & Eastern R. R. Co., and *for mail*, 2 Sheridan St., Auburn, N. Y.
- DYER, Robt. M. (1892; 1904), V. P. and Treas., Puget Sound Bridge & Dredging Co., 432-41 Central Bldg., and 3002 Cascadia Ave., Seattle, Wash.
- EARLE, Edgar P. (1889; 1905), Pres., Earle Gear & Mch. Co., Stenton and Wyoming Aves., Wayne Jct., Philadelphia,, and *for mail*, 23d St. near Graver's Lane, Chestnut Hill, Philadelphia, Pa.
- EARLE, Samuel Broadus (1905; Associate, 1908), Asso. Prof. Mech. Engrg., Clemson College, Clemson College P. O., S. C.
- EARLL, Chas. Isaac (1892), 11 Broadway, and 159 W. 105th St., New York, N. Y.
- EASBY, Francis H. (1888), 3316 Powelton Ave., Philadelphia, Pa.
- EASTHOPE, Joseph (1906), Master Mech., Ill. Steel Co.'s South Wks., and *for mail*, 7534 Saginaw Ave., Chicago, Ill.
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- EATON, Henry Chas. (Associate, 1908), Foreman, Engrg. Dept., Waltham Watch Co., Waltham, Mass.
- EATON, Russell Wm. (1894), Agt., Cabot Mfg. Co., and 17 Federal St., Brunswick, Me.
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- EGBERT, Chas. Coghill (1906), Cons. Engr., 53 Gluck Bldg., and 610 Riverside, Niagara Falls, N. Y.
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- EHLERS, Peter (1890), Ch. Engr., Wm. I. McCahan Sugar Refining Co., Foot Tasker St., and *for mail*, 3227 N. 17th St., Philadelphia, Pa.
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- ELY, Sumner Boyer (1896; 1901), V. P., Chester B. Albree Iron Wks. Co., Allegheny, and 5122 Pembroke Pl., Pittsburgh, Pa.
- ELY, Theo. N. (1880), Manager, 1880-1882; Vice-President, 1882; Chief of Motive Power, Pa. R. R., System E. and W. of Pittsburgh, Broad St. Sta., Philadelphia, and Bryn Mawr, Pa.
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- EMERSON, Harrington (1899), Standard Practice and Efficiency Engr., Rms. 1522-24, Hudson Terminal Bldg., 30 Church St., New York, N. Y.
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- FABER DU FAUR, A. (1880), Life Member; Cons. Engr. and Expt. in Pat. Causes, Rm. 617, Vanderbilt Bldg., 132 Nassau St., New York, N. Y., and *for mail*, 22 Nichols St., Newark, N. J.
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- FELTHOUSEN, John H. (1896), Hyd. and Mech. Engr., S. Morgan Smith Co., and *for mail*, Linden Ave. and West St., York, Pa.
- FELTON, Edgar Conway (1885), Manager, 1898-1901; Pres., Penn Steel Co., 300 Franklin Bank Bldg., Philadelphia, and *for mail*, Haverford, Pa.

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- FERGUSON, J. W. (1891), Engr. and Bldg. Contr., 152 Market St., and 12th and 28th St., Paterson, N. J., also 253 Broadway, New York, N. Y.
- FERGUSON, Henry A. (1902) Cons. Engr. and Genl. Mgr., Steel Roof Truss Co., 618 New Bank of Commerce Bldg., St. Louis, and 505 Lockwood Ave., Webster, Mo.
- FERMIER, Emile J. (1908), Prof. Mech. Engrg., Agri. and Mech. College of Tex., College Sta., Texas.
- FERNALD, Robt. H. (1900; 1903), Prof. Mech. Engrg., Case Sch. of Applied Science, Engr. in charge, U. S. Geolog. Survey, and 1916 E. 82d St., Cleveland, O.
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- FRASER, Norman D. (1886), Pres., Chicago Portland Cement Co., 108 La Salle St., and *for mail*, 2928 Washington Blvd., Chicago, Ill.
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- FROST, Edward J. (1908), Pres. and Genl. Mgr., Frost Gear Mch. Co., Horton and Tyson Sts., and 301 First St., Jackson, Mich.
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- GANNETT, Herbert I. (Junior, 1900), V. P. and Genl. Mgr., Monarch Acetylene Co., 66-70 Exchange St., and 129 Windsor Ave., Buffalo, N. Y.
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- GIBBS, Geo. (1890), Ch. Engr. Elec. Traction, and Terminal Sta. Constr., Pa. Tunnel & Terminal R. R. Co., Ch. Engr., Elec. Traction, West Jersey & Seashore R. R. Co., L. I. R. R. Co., 10 Bridge St., New York, N. Y.
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- GILMOUR, George (1909), Ch. Engr., Travelers' Ins. Co., Hartford, Conn., and 957 St. Nicholas Ave., New York, N. Y.
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- GUMP, Walter B. (Junior, 1902), Genl. Mgr., Hallidie Mch. Co., Occidental Ave. and King St., Seattle, Wash.
- GUNTHER, Charles O. (1900; Associate, 1905), Prof. Math., Stevens Inst. of Tech., Hoboken, N. J., and Member of Firm, Genl. Engrg. Co., 90 West St., New York, N. Y.
- GUY, Albert Emile (1905), Ch. Engr., DeLaval Steam Turbine Co., and E. Hamilton Ave., Trenton, N. J.
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- HACKSTAFF, John D. (Junior, 1901), Supt. Engrg. Dept., Hope Engrg. & Supply Co., 901 Farmers Bank Bldg., Pittsburg, Pa.
- HADDOCK, Edwin Jos. (1906), Mech. and Struct. Engr., Coal Min. Dept., Tenn. Coal, Iron & R. R. Co., 1602 Brown-Marx Bldg., Birmingham, Ala.
- HADEN, Harry Y. (Associate, 1906), Pres., Turbine Equip. Co., 30 Church St., New York, N. Y.
- HADFIELD, Sir Robert Abbott (1907), Chairman and Managing Dir., Hadfield Co., and *for mail*, Parkhead House, Sheffield, also 28 Hertford St., Mayfair, W., London, England.
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- HAGMAN, W. J. (1901), Genl. Mgr., Bement-Miles Wks., 21st and Callowhill Sts., and The Brantwood Apts., Philadelphia, Pa.
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- HAIGHT, Harry Vercoe (1899; 1907), Ch. Engr., Canadian Rand Drill Co., Ltd., and *for mail*, 30 Portland Ave., Sherbrooke, P. Q., Canada.
- HAINES, Edward Preston (1907), Mech. Engr., Sun Power Co., and 7046 Van Dyke St., Tacony, Philadelphia, Pa.
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- HALE, Frederick J. (Junior, 1902), Engr., Gas Eng. Dept., Westinghouse Mch. Co., East Pittsburg, and *for mail*, 1133 Franklin Ave., Wilkinsburg, Pa.
- HALE, Herbert Carlton (1904), Contr. and Designing Engr., 1036-38 Schofield Bldg., Cleveland, O.
- HALE, Robt. Sever (1894; 1897; 1899), Supt., Sales Dept., Edison Elec. Ill. Co., 39 Boylston St., and *for mail*, Tennis and Racquet Club, 939 Boylston St., Boston, Mass.
- HALL, Frederick Arthur (1892; 1897), V. P. and Treas., Cameron Engrg. Co., Brooklyn, N. Y., and *for mail*, 128 Ascension St., Passaic, N. J.
- HALL, Frederick Bellows (1905), Mech. Engr., W. E. Baker & Co., 27 William St., and 40 Morningside Ave., New York, N. Y.
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- HALSEY, F. A. (1882), Editor, American Machinist, Hallenbeck Bldg., 505 Pearl St., New York, N. Y.
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- HAMILTON, Wm. Juel (1905), Secy., Hendrick Mfg. Co., and 209 Anthracite Block, Carbondale, Pa.

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- HAMMER, Alfred E. (1884), Treas. and Genl. Mgr., Mall. Iron Fittings Co., Branford, Conn.
- HAMMETT, Hiram G. (1888), Hammett Mch. Wks., 476-482 8th St., Troy, N. Y.
- HAMMOND, Richard (1890), Pres., Lake Erie Engrg. Wks., and Lake Erie Boiler Wks., and *for mail*, 413 Porter Ave., Buffalo, N. Y.
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- HAMPSON, C. M. (Junior, 1902), Pres., The Hampson-Fielding Engrg. Co., 1711 Tremont St., and *for mail*, 2098 Ogden St., Denver, Colo.
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- HANSON, B. M. W. (1900), Wks. Mgr., Pratt & Whitney Co., and 122 Tremont St., Hartford, Conn.
- HANSON, Walter S. (Associate, 1902), Pres., El Reno Alfalfa Milling Co., El Reno, Okla.
- HANZLIK, Henry J. (Junior, 1903), Steam Turbine Dept., Genl. Elec. Co., and *for mail*, 27 Grosvenor Park, Lynn, Mass.
- HARDIE, William (1900), Pres., Hardie-Tynes Mfg. Co., and 2220 Sycamore St., Birmingham, Ala.
- HARDING, Adalbert (Junior, 1898), Wickes Boiler Co., Rm. 1411, 90 West St., and 69 W. 49th St., New York, N. Y.
- HARDING, Frank Welland (1896), Genl. Mech. Supt., Canadian Rubber Co. of Montreal, Ltd., Notre Dame St. and Papineau Ave., Montreal, Canada.
- HARDY, C. E. (Junior, 1902), Asst. Shop Supt., Mfg. Dept., U. S. Navy Yard, Mare Island, and *for mail*, Hottel House, Napa, Cal.
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- HARPER, John Lyell (1906), Ch. Engr., Niagara Falls Hyd. Power & Mfg. Co., Niagara Falls, N. Y.
- HARRIMAN, Norman Follett (1904), Chem. and Engr. of Tests, Union Pacific Lab., and 106 S. 36th St., Omaha, Neb.
- HARRINGTON, Harry Garfield (1900; 1906; 1907), 39 Pacific St., Newark, N. J.
- HARRINGTON, John L. (1903), Waddell & Harrington, Cons. Engrs., Orear-Leslie Bldg., and 2458 Forest Ave., Kansas City, Mo.
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- HARRIS, Grenville A. (1907), Ch. Engr., Takata & Co., 50 Church St., New York, N. Y., and 176 Stiles St., Elizabeth, N. J.
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- HARRIS, John J. (1901), Mech. Engr., Bd. of Ed., Scranton H. S., Wash. Ave. and Vine St., and *for mail*, 207 Stephen Ave., Scranton, Pa.
- HARRIS, James Wilfrid (1905), Engr., Laburnums, Bilston, Staffordshire, England.
- HARRIS, Wm. Allison (1904), Mgr., Am. Sheet & Tin Plate Co., Roll and Mch. Wks., and 1338 N. Cleveland Ave., Canton, O.
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- HARRISON, Edwin S. (Junior, 1905), care Adolphus Busch, Purchaser, Am. Diesel Eng. Co., South Side Bank Bldg., St. Louis, Mo.
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- HART, Frederick L. (1891), 53 Clinton Ave., Jamaica, L. I., N. Y.
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- HART, Robert W. (Associate, 1909), N. E. Mgr., Olds Gas Power Co., 65 Beverly St., Boston, and 11 Glengarry, Winchester, Mass.
- HART, Rogers Bonnell (Associate, 1907), Ch. Draftsman, Pittsburg Gage & Supply Co., 30th and Liberty Sts., and *for mail*, 7413 Race St., Pittsburg, Pa.
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- HARTNESS, James (1891), Manager, 1909-1912; Life Member; Pres., Jones & Lamson Mch. Co., Springfield, Vt.
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- HARVEY, Minor (1908), Engr., Morse, Williams & Co., and *for mail*, 4217 Haverford Ave., Philadelphia, Pa.
- HASKELL, Broderick (1903), V. P. and Genl. Mgr., Venango Mfg. Co., Franklin, Pa.
- HASKELL, George O. (Junior, 1899), V. P., Fidelity Cotton Oil & Fertilizer Co., Houston, Tex.
- HASKINS, Caryl D. (1905), Mgr., Ltg. Dept., Genl. Elec. Co., and 32 Wash. Ave., Schenectady, N. Y.
- HASKINS, Harry S. (Associate, 1887), 1524 N. 15th St., Philadelphia, Pa.
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- HAUGHTON, Frank A. (1903), Genl. Supt., Taylor Iron & Steel Co., High Bridge, N. J.
- HAVEN, Henry M. (1904), Mech. and Refrig. Engr., F. W. Dean, 53 State St., Boston, and *for mail*, 27 Lloyd St., Winchester, Mass.
- HAWKINS, Edgar Marvin (Junior, 1901), Genl. Mgr., M. D. Knowlton Co., Inc., 29-35 Elizabeth St., and 1 Girton Pl., Rochester, N. Y.
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- HAWKS, Arthur S. (1904; 1909), Engr. Power Dept., Bethlehem Steel Co., South Bethlehem, and 313 Wall St., Bethlehem, Pa.
- HAWLEY, Wm. Parker (Junior, 1903), Instr. Mech. Drawing, Lewis Inst., Chicago, and 320 N. 64th Ave., Oak Park, Ill.
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- HAYWARD, Henry S., Jr. (1900; 1907), Mech. Engr., Franklin Ry. Supply Co., 30 Church St., New York, N. Y., and *for mail*, 60 North Ave., Elizabeth, N. J.
- HAYWARD, Sterling F. (1903), Treas. and Genl. Mgr., Connelly Ir. Sponge & Gov. Co., 50 Church St., New York, and 64 Locust Hill, Yonkers, N. Y.
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- HAZELTON, Robert T. (Junior, 1909), Designer, Bridgeford Mch. Tool Co., 225 Mill St., Rochester, N. Y.
- HAZELTON, William S. (1909), 475 Second Ave., Detroit, Mich.
- HEAD, Francis (1906), Mech. Engr., Bureau of Water, 790 City Hall, Philadelphia, and *for mail*, 109 W. Cheltenham Ave., Germantown, Philadelphia, Pa.
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- HEALY, Frederick E. (1906), Mech. Engr. and Spec. Agt., Alberene Stone Co., New York, N. Y., and *for mail*, 1409 Monroe St., N. W., Washington, D. C.
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- HELVEY, Geo. Stanley (Junior, 1904), M. E., Engr., and Factory Mgr., Repub. Motor Car Co., and *for mail*, 914 E. High St., Hamilton, O.
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- HERING, Rudolph (1906), Life Member; Cons. Engr., Hering & Fuller, 170 Broadway, New York, N. Y., and 40 Lloyd Pl., Montclair, N. J.
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- HIGGINS, George F. (1886; 1906), 41 Mt. Vernon St., Melrose, Mass.
- HIGGINS, John W. (Junior, 1902), Secy. and Genl. Mgr., Worcester Pressed Steel Co., North Ave., and *for mail*, 184 Highland St., Worcester, Mass.
- HIGGINS, Milton P. (1880), Vice-President, 1901-1902; Pres., Norton Emery Wheel Co., and *for mail*, 228 West St., Worcester, Mass.
- HILDENBRAND, Harry (Junior, 1909), Genl. Supt., L. C. Ehle Oil Mills, Houston, Tex.
- HILDRETH, W. A. (1902), Ch. of Small Tool Dept., Alfred Herbert, Ltd., Coventry, and *for mail*, Milton House, Earlsdon, Coventry, England.
- HILDRETH, William Osgood (Junior, 1888), Engr., Lamson Cons. Store Service Co., 161 Devonshire St., Boston, and *for mail*, 643 Westford St., Lowell, Mass.
- HILES, Elmer K. (1900; 1906), 803 Fulton Bldg., and *for mail*, 5537 Hampton St., Pittsburg, Pa.
- HILL, Alfred J. (Associate, 1902), Supt., Fdy. Dept., Anaconda Copper Min. Co., and Foundry Hill, Anaconda, Mont.
- HILL, Charles Hubbard (Associate, 1907), Designing Engr., Genl. Elec. Co., and *for mail*, 305 Lenox Rd., Schenectady, N. Y.
- HILL, Ebenezer (1892), Genl. Mgr., Norwalk Iron Wks. Co., South Norwalk, Conn.
- HILL, Ebenezer, Jr. (1900; 1907), Secy. and Supt., Norwalk Iron Wks. Co., South Norwalk, and *for mail*, 11 Elm St., Norwalk, Conn.
- HILL, Edgar Logan (Junior, 1908), Asst. Dist. Engr., Am. Steel & Wire Co., and *for mail*, P. O. Box 553, Worcester, Mass.
- HILL, E. Rowland (1907), Asst. to Ch. Engr. Elec. Traction, Pa. Tunnel & Terminal R. R., 10 Bridge St., New York, N. Y., and 76 Watson Ave., East Orange, N. J.
- HILL, Geo. (1892), Builder, 31 E. 27th St., New York, N. Y., and New Brunswick, N. J.
- HILL, Harold H. (Associate, 1904), Mech. Engr., Dist. Mgr., Erie City Iron Wks., 807 N. E. Bldg., and 11317 Belleflower Rd., N. E., Cleveland, also Hilltop Farm, Wickliffe, Lake Co., O.
- HILL, John W. (1899), Ch. Draftsman of Tools, Am. Loco. Co., and 458 Public St., Providence, R. I.
- HILL, Reuben (1908), Factory Mgr., Bristol Engrg. Corp., Bristol, Conn.
- HILL, Robert J. (Associate, 1904), Ch. Mech. Engr., 819 First Natl. Bank Bldg., Birmingham, Ala., and 816 Sheridan Rd., Wilmette, Ill.
- HILL, Thomas (1900), Cons. Engr., 2102 Jersey St., and 2102 Lawn-
dale, Quincy, Ill.

- HILL, Walter L. (Associate, 1902), Hill-Ray Engrg. Co., 110 State St., Boston, and Arlington, Mass.
- HILL, William (1883; 1889), Pres., The Collins Co., Collinsville, Conn.
- HILLER, Joseph Lilburne (Associate, 1907), Mech. Engr., Pa. Crusher Co., Stephen Girard Bldg., Philadelphia, Pa.
- HILLER, N. H. (1902), V. P., Carbondale Mch. Co., and 68 Laurel St., Carbondale, Pa.
- HILLMAN, Cecil Robert (1899), Asst. Loco. Supt., Central Office, Sao Paulo Ry. Co., Sao Paulo, Brazil, S. A.
- HILLMANN, Gustav (1883), Life Member; Naval Arch., 470 Greene Ave., Brooklyn, N. Y.
- HILLYER, George, Jr. (1898; Associate, 1904), Mgr., Am. Radiator Co., Candler Bldg., and *for mail*, 5 Crew St., Atlanta, Ga.
- HINCHMAN, C. R. (1893), Engr., Am. Steel & Wire Co., and 2060 E. 90th St., Cleveland, O.
- HINCHMAN, Theodore H., Jr. (1895; 1905), Cons. Engr., 708 Wash. Arcade, and 223 Seminole Ave., Detroit, Mich.
- HINDS, Fred Sumner (1907), Arch. and Mech. Engr., 19 Milk St., Boston, and Newton Centre, Mass.
- HIRSCHLAND, Franz Herbert (Junior, 1906), Mgr., Goldschmidt Detinning Co., 60 Wall St., and 508 W. 114th St., New York, N. Y.
- HIRSHEIMER, Harry Julius (1892; Associate, 1904), V. P., La Crosse Plow Co., and *for mail*, 131 S. 15th St., La Crosse, Wis.
- HIRSHFELD, Clarence Floyd (Junior, 1905), Prof. Power Engrg., Sibley College, Cornell Univ., and *for mail*, 712 E. Seneca St. Ithaca, N. Y.
- HIRT, Louis Joseph (1894), Mech. Engr., Broad Exch. Bldg., 25 Broad St., New York, and *for mail*, 34 Morsemere Pl., Yonkers, N. Y.
- HITCHCOCK, Embury A. (1898), Prof. Exper. Engrg., Ohio State Univ., and 380 W. 8th Ave., Columbus, O.
- HITCHCOCK, Fred'k Matthew (1899; 1907), 80 Wash. Sq. E., New York, N. Y.
- HOBART, Frank G. (1890), Ch. Engr., Fairbanks, Morse & Co., and *for mail*, 1259 Chapin St., Beloit, Wis.
- HOBART, James C. (1888; 1893), Secy. and Mgr., Triumph Elec. & Ice Mch. Co.'s, and 2820 Winslow Ave., Cincinnati, O.
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- HODGE, Geo. O. (Junior, 1904), Bristol Engrg. Corp., Bristol, Conn.
- HODGE, Harry S. (1891), Pres., Detroit Twist Drill Co., and *for mail*, 83 Alfred St., Detroit, Mich.
- HODGES, Chas. Bowen (Junior, 1897), H. K. Porter & Co.'s Shop, Pittsburg, Pa.
- HODGINS, George S. (1908), Managing Editor, Railway and Locomotive Engineering, 114 Liberty St., and 565 W. 139th St., New York, N. Y.
- HODGKINSON, Francis (1902), Mech. Engr., Westinghouse Mch. Co., East Pittsburg, and *for mail*, 127 Linden St., Edgewood Park, Pa.

- HODGSON, Walter B. (Junior, 1908), Empire State Chem. Co., Athens, Ga.
- HOEFER, Elmer Geo. (Associate, 1909), Prof. Mech. Engrg., Univ. of Wyo., Laramie, Wyo.
- HOERR, Alexander L. (1907), Steam and Hyd. Engr., Natl. Tube Co., Natl. Wks., and *for mail*, 1011 McCleary St., McKeesport, Pa.
- HOFFMAN, James David (1894; 1903), Prof. Engrg. Design, Purdue Univ., Lafayette, and 301 State St., West Lafayette, Ind.
- HOFMEYER, George August (Associate, 1905), Cons. Engr., 207 W. 24th St., New York, N. Y., and *for mail*, Ho-Ho-Kus, N. J.
- HOGAN, Patrick Henry (Associate, 1904), N. E. Mgr., Dearborn Drug & Chem. Wks., 8 Oliver St., and Rosindale, Boston, Mass.
- HOGLE, Milton W. (1901; Associate, 1906), 128 Linden St., Rochester, N. Y.
- HOGUE, Oliver D. (1909), Mgr., Power Pump Dept., Gould's Mfg. Co., 1106 Tremont Bldg., Boston, Mass.
- HOLBROOK, Dio Lewis (1899), Engr., Otis Elev. Co., 17 Battery Pl., and *for mail*, 46 E. 21st St., New York, N. Y.
- HOLBROOK, Percy (1900), V. P., Rail Joint Co., 29 W. 34th St., New York, N. Y.
- HOLCOMB, A. Elton (Junior, 1901), V. P. and Mgr., Earth Moving Mch. Co., 4005 W. Madison St., and *for mail*, 4323 W. Van Buren St., Chicago, Ill.
- HOLDSWORTH, Fred Dean (1904), Mech. Engr., Sullivan Mch. Co., Claremont, N. H.
- HOLL, Chas. L. (Junior, 1908), Engr., Allis-Chalmers Co., Milwaukee, Wis., and *for mail*, 302 S. Monroe St., Streator, Ill.
- HOLLANDER, Emanuel (1901; 1906), Ch. of Estimating Staff, Engrg. Dept., Otis Elev. Co., 17 Battery Pl., and 244 W. 122d St., New York, N. Y.
- HOLLERITH, Herman (1880; 1883), 1054 31st St., Washington, D. C.
- HOLLINGSWORTH, Samuel (1899; 1907), Mech. Engr., 171 E. Front St., Plainfield, and Stout Ave., Scotch Plains, N. J.
- HOLLIS, Ira N. (1884), Prof. Engrg., Harvard Univ., Cambridge, Mass.
- HOLLMANN, Frederick W. (Junior, 1907), Asst. Mech. Engr., Carborundum Co., and *for mail*, 5 West C St., Echota, Niagara Falls, N. Y.
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- HOLMAN, M. L. (1890), Vice-President, 1894-1896, 1903-1905; President, 1907-1908; Cons. Engr., Holman & Laird, Chem. Bldg., and *for mail*, 3744 Finney Ave., St. Louis, Mo.
- HOLMAN, R. Claude (1907), Ch. Draftsman, Hooven, Owens & Rentschler Co., Hamilton, O.
- HOLMES, Andrew A. (Junior, 1904), Pres. and Treas., Hancock, Holmes Fdy. Mch. Wks., P. O. Box 461, and 31 Porter Pl., Atlanta, Ga.

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- HOLMES, George Lewis (1899; 1906), Cons. Engr., San Francisco, and *for mail*, 412 Edwards St., Oakland, Cal.
- HOLMES, Joseph Austin (1908), Expt. in charge Tech. Branch, U. S. Geolog. Survey, and 2137 Leroy Pl., N. W., Washington, D. C.
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- HOLT, Charles Parker (Associate, 1906), V. P., Holt Mfg. Co., and V. P., Holt Bros. Co., 304 Balboa Bldg., and 2600 Vallejo St., San Francisco, Cal.
- HOLT, Frank Eugene (1900), Ch. Engr., Singer Mfg. Co., Elizabeth, and *for mail*, 93 W. 34th St., Bayonne, N. J.
- HONISS, William Henry (1899), Mech. Engr., and Solicitor of Patents, 315 Pearl St., and 102 Huntington St., Hartford, Conn.
- HONSBURG, August A. (1901), M. E., Asst. County Engr., Old Court House, Map Dept., and *for mail*, 5 Euclid Windsor Pl., Cleveland, O.
- HOOD, Ozni Porter (1904), Prof. Mech. and Elec. Engrg., Mich. College of Mines, and *for mail*, 84 Hubbell St., Houghton, Mich.
- HOOPES, Maurice (1901), Pres., Finch, Pruyn & Co., Glens Falls, N. Y.
- HOPKINS, George G., Jr. (Junior, 1901), Inspector, N. Y. Board of Fire Underwriters, Rm. 713, 34 Nassau St., New York, and *for mail*, 320 Clermont Ave., Brooklyn, N. Y.
- HOPKINS, Guy (1905), Operating Engr., Southern Pacific R. R., and 730 Esplanade Ave., New Orleans, La.
- HOPPE, John J. (1890), Pres., Hoppes Mfg. Co., and Trump Mfg. Co., and *for mail*, 1311 E. High St., Springfield, O.
- HOPPS, John Herbert (1905), Cons. Engr., 503 Market St., San Francisco, and Ross, Marion Co., Cal.
- HOPTON, Lemuel Robert (Junior, 1899), Supt., The Enos Co., 7th Ave. and 16th St., New York, N. Y., and Plainfield, N. J.
- HOPTON, W. E. (1891; 1896), Purchasing Dept., Solvay Process Co., and *for mail*, 311 Summit Ave., Syracuse, N. Y.
- HORNE, Convers Francis (Junior, 1905), Contr. Engr., Sterling Blower & Pipe Mfg. Co., 109 Liberty St., New York, and 145 Lefferts Pl., Brooklyn, N. Y.
- HORNE, H. Field (Junior, 1909), 117 West Side Ave., and *for mail*, 595 West Side Ave., Jersey City, N. J.
- HORNUNG, Geo. (1886), Cons. Engr., Johnston Bldg., Cincinnati, O., and 512 Fairfield Ave., Bellevue, Ky.
- HORSTMANN, Henry J. (1894), Mech. Engr., E. W. Horstmann Co., 410 John St., East Newark, and 240 Ridge St., Newark, N. J.
- HORTON, John T. (1895), Spec. in equip. for hoisting and handling material, 95 Liberty St., New York, and *for mail*, 276 Rugby Rd., Brooklyn, N. Y.
- HORTON, S. Ellsworth (1905), Pres., E. Horton Mch. Co., also Eastern Rep., Bardons & Oliver of Cleveland, O., Windsor Locks, Conn.
- HORTON, William H. (Junior, 1904), Mech. Engr., Constr. Dept., Swift & Co., and *for mail*, 7001 Park Ave., Chicago, Ill.

- HOSMER, Amos G. (1902), Mech. Supt., Lancaster Mills, 1 Green St., and *for mail*, 40 Chestnut St., Clinton, Mass.
- HOSMER, Sidney (1902), Elec. Engr., Edison Elec. Ill. Co., 39 Boylston St., and 74 Bay State Rd., Boston, Mass.
- HOUGH, David Leavitt (1891; 1892), Pres., United Engrg. & Contr. Co., Managing Dir., Cuban Engrg. & Contr. Co., and *for mail*, 17 W. 42d St., New York, N. Y.
- HOUGHTON, Charles E. (1899), Asso. Prof. Mech. Engrg., N. Y. Univ., and *for mail*, Univ. Hgts., New York, N. Y.
- HOUGHTON, Clyde Arthur (Junior, 1909), P. H. B. & N. C. Ry. Co., Eidenau, Pa.
- HOUSEKEEPER, Wm. G. (Junior, 1906), Research and Engrg. Wks., Westinghouse Lamp Co., Bloomfield, N. J., 3508 Baring St., Philadelphia, Pa.
- HOUSUM, Chenoweth (Associate, 1908), Wm. Tod Co., and *for mail*, 525 Bryson St., Youngstown, O.
- HOWARD, Chas. Alton (Junior, 1907), Mgr., Turbine Dept., E. W. Bliss Co., Adams and Plymouth Sts., Brooklyn, and *for mail*, 180 W. 76th St., New York, N. Y.
- HOWARD, Charles P. (1880), Pres., James L. Howard & Co., and 116 Farmington Ave., Hartford, Conn.
- HOWARD, O. Zell (1908), Mech. Engr., and Asst. to Dir., U. S. Naval Exp. Sta., and *for mail*, 50 Franklin St., Annapolis, Md.
- HOWARD-SMITH, Spurrier (1898), Treas., Link-Belt Co., Nicetown, Philadelphia, and *for mail*, 4838 Pulaski Ave., Germantown, Philadelphia, Pa.
- HOWARTH, Harry A. S. (1908), P. O. Box 174, South Bethlehem, Pa.
- HOWE, Albert W. (1903), Salesman, Standard Plunger Elev. Co., 115 Broadway, New York, and *for mail*, Hotel St. George, Brooklyn, N. Y.
- HOWELL, Edward I. H. (1889), Mech. Engr., Rm. 260, Bullitt Bldg., and 5218 Germantown Ave., Philadelphia, Pa.
- HOWELL, Frank B. (1901), Asst. Genl. Mgr. Sales, Am. Radiator Co., 104-8 W. 42d St., and Bretton Hall, Broadway and 86th St., New York, N. Y.
- HOWELL, Frank Scott (Associate, 1909), Civ. and Mech. Engr., Ellis Island, and *for mail*, N. Y. Athletic Club, 58 W. 59th St., New York, N. Y.
- HOWELL, John Jacob (Junior, 1906), Eastern Mgr., Power Boating, West St. Bldg., and *for mail*, 210 W. 122d St., New York, N. Y.
- HOWELLS, Charles (1904), Supt., Watson-Stillman Co., 50 Church St., and *for mail*, 600 W. 142d St., New York, N. Y.
- HOWLETT, Lewis G. (Junior, 1903), Supt., Industrial Wks., and *for mail*, 415 N. Lincoln St., Bay City, Mich.
- HOXIE, Frederick J. (1907), Phenix, R. I.
- HOXIE, Geo. L. (1893; 1904), Cons. Engr., 50 Church St., New York, N. Y.
- HOXIE, Wm. D. (1899), V. P., Babcock & Wilcox Co., 85 Liberty St., New York, and 298 Wash. Ave., Brooklyn, N. Y.
- HOY, Austin Y. (Junior, 1906), Northwestern Rep., Sullivan Mchy. Co., Box 2173, and Pennington Hotel, Spokane, Wash.

- HUBERT, Herman (1905), Genl. Insp. of Mines, Prof. Applied Mechs. and Industrial Physics, Univ. of Liege, and Rue Fabry 68, Liege, Belgium.
- HUDSON, Robt. Allan (Junior, 1909), Partner, Hunter & Hudson, Engrs., 746 Monadnock Bldg., San Francisco, Cal.
- HUDSON, Wilbur Gregory (1906), V. P., Guarantee Constr. Co., 90 West St., and V. P., Darley Engrg. Co., 149 Broadway, New York, N. Y.
- HUFF, Slaughter W. (1891; 1897), 259 Franklin Ave., and 569 St. Marks Ave., Brooklyn, N. Y.
- HUGHES, Burton Shelley (1908), Cons. Engr., Champion Fibre Co. of Canton, N. C., and Champion Coated Paper Co., and *for mail*, 4 Park Terrace, Hamilton, O.
- HUGHES, Edward F. (Associate, 1902), Agt., Chapman Valve Mfg. Co., 94 Pearl St., Boston, and *for mail*, 12 Hawthorne St., Watertown, Mass.
- HUGHES, Robert G. (1908), Secy. and Mech. Engr., John W. Ferguson Co., and *for mail*, 152 Market St., Paterson, N. J.
- HUGO, T. W. (1882), Cons. Engr., 221 W. 6th Ave., Duluth, Minn.
- HUGO, Victor (Junior, 1900), Mgr., Hartford Steam Boiler Insp. & Ins. Co., 614 Security Bldg., St. Louis, Mo.
- HULBERT, William Rowsell (Associate, 1906), Sales Mgr., Goldschmidt Thermit Co., 90 West St., New York, N. Y.
- HULETT, Frank E. (1906), Engr., Wellman-Seaver-Morgan Co., and *for mail*, 6 Rosalind Ave., East Cleveland, O.
- HULETT, Geo. Henry (1903), Third V. P., Wellman-Seaver-Morgan Co., and 710 E. Prospect St., Cleveland, O.
- HUMPHREY, Clifford Wayne (Associate, 1907), Cons. and Designing Engr., 618 Rookery Bldg., Chicago, Ill.
- HUMPHREY, George S. (1901), Treas. and Pur. Agt., C. W. Hunt Co., 45 Broadway, New York, and *for mail*, 320 Bement Ave., West New Brighton, S. I., N. Y.
- HUMPHREY, Orman B. (1907), Cons. Engr., 96½ Exch. St., and *for mail*, 63 Grove St., Bangor, Me.
- HUMPHREYS, Alex. C. (1884), Manager, 1907-1910; Life Member; Pres., Stevens Inst. of Tech., Hoboken, N. J., Pres., Buffalo Gas Co., and *for mail*, Pres., Humphreys & Glasgow, 165 Broadway, New York, N. Y.
- HUMPHREYS, Walter (Associate, 1902), Instr. and Registrar, Mass. Inst. of Tech., Boston, and 343 Clinton Rd., Brookline, Mass.
- HUNING, Arno E. (Junior, 1902), Secy. and Treas., Nash Elec. Supply Co., Pres., Southwestern Elec. & Con. Co., Secy., Albuquerque Floral Co., Albuquerque, New Mexico.
- HUNT, Andrew M. (1895), Cons. Engr., Union Trust Bldg., San Francisco, Cal.
- HUNT, Charles B. (1902), Supt. Constr., Buckeye Eng. Co., and 636 McKinley Ave., Salem, O.
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- HUNT, Leigh Anson (1906), Pres., Hunt Engrg. Co., Iola, Kan.

- HUNT, Robert W. (1880), President, 1890-1891; Manager, 1882-1885; Robert W. Hunt & Co., Insp. and Cons. Engr., 1121 Rookery Bldg., and 77 E. Division St., Chicago, Ill.
- HUNT, Wm. Floyd (Associate, 1894; 1903), Life Member; 45 Broadway, New York, N. Y.
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- HUNTER, J. S. (1889), 15 Washington St., Hartford, Conn.
- HUNTER, James D. (1894), V. P., Hunter Mch. Co., and 48 Wall St., North Adams, Mass.
- HUNTER, James Francis (1899; 1909), Asst. Engr. of Constr., Cons. Gas Co., 4 Irving Pl., New York, N. Y., and 1517 Bolton St., Baltimore, Md.
- HUNTER, John (1909), Ch. Engr., Union Elec. Light & Power Co., and 4462 Laclede Ave., St. Louis, Mo.
- HUNTER, John A. (1909), Steam Engr., Am. Sheet & Tin Plate Co., Frick Bldg., Pittsburg, and *for mail*, 553 Mifflin Ave., Wilkesburg, Pa.
- HUNTING, Eugene Nathan (Junior, 1904), Engr., Nicola Bldg. Co., Farmers Bank Bldg., Pittsburg, Pa., and Welchville, Oxford Co., Me.
- HURD, Hobert J. (1894; 1897), Supt., Liberty Cartridge Co., Mt. Carmel, Conn.
- HURLBURT, Alfred (Associate, 1902), Asst. Engr., McGowan, Small & Morgan, 910 Grand Ave., and 716 Gleeed Terrace, Kansas City, Mo.
- HURLEY, Daniel (Junior, 1904), Cons. Engr., 1329 11th St., N. W., Washington, D. C., and 42 E. Manning St., Providence, R. I.
- HUSON, Winfield Scott (1887; 1891), Genl. Supt., Whitlock Ptg. Press Mfg. Co., and 12 Cottage St., Derby, Conn.
- HUSSEY, Charles W. (Junior, 1908), Victor Talking Mch. Co., Camden, N. J., and *for mail*, 33 St. Andrews Pl., Yonkers, N. Y.
- HUSSEY, Oren S. (1897), Treas., Frank Ridlon Co., 253 A St., Boston, and Brookline, Mass.
- HUSSEY, Wm. Edgerly (1904), Mgr., N. Y. Office, Providence Engrg. Wks., 50 Church St., and 67 W. 92d St., New York, N. Y.
- HUSTON, Charles L. (Associate, 1887), V. P., Lukens Iron & Steel Co., and 64 S. First Ave., Coatesville, Pa.
- HUTCHINGS, Clifford F. (Junior, 1907), Sprague Elec. Co., 527-531 W. 34th St., and *for mail*, 2441 Seventh Ave., New York, N. Y.
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- HYMAN, D. (1892), V. P., Empire Limestone Co., Virginia and Fourth Sts., and 410 Porter Ave., Buffalo, N. Y.
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- JUNGHANS, Edward K. (1908), Supt. and Ch. Engr., Porvenir Sugar Co., Yngenio Porvenir, San Pedro de Macoris, Santo Domingo, W. I.
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- KATTE, Edwin Britton (1895; 1901), Ch. Engr. Elec. Traction, N. Y. C. & H. R. R. R., 1230 Grand Central Sta., New York, and Irvington, N. Y.
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- KEELY, Royal R. (1901; 1907), Prof. Elec. Engrg., Nova Scotia Tech. College, Halifax, N. S.
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- LUCAS, Henry M. (1904), Lucas Mch. Tool Co., E. 99th St. and L. S. & M. S. R. R., and *for mail*, 794 E. 99th St., Cleveland, O.
- LUCAS, Henry van Noye, Jr., (Junior, 1905), present address unknown.
- LUCKE, Charles E. (1903; 1908), Prof. Mech. Engrg., Columbia Univ., and 544 W. 142d St., New York, N. Y.
- LUCKER, Grover Cleveland (Junior, 1907), Agt., Ingersoll-Rand Co., 73 Oliver St., Boston, and *for mail*, 42 Liberty Ave., Somerville, Mass.
- LUDEMAN, Edwin Henry (Associate, 1904), Steam Engr., 165 Broadway, New York, and *for mail*, 810 E. 19th St., Brooklyn, N. Y.
- LUDLOW, C. G. (1902), Mgr., Crosby Steam Gage & Valve Co., 435-37 W. Lake St., and 743 Montrose Ave., Chicago, Ill.
- LUDY, Llewellyn V. (1905), Prof. Mech. Engrg., Purdue Univ., and 229 Univ. St., Lafayette, Ind.
- LUEHRS, Daniel Michael (Junior, 1907), Ch. Engr. and Supt., McCreery Engrg. Co., Toledo, O.

- LUFKIN, Elgood Chauncey (1896), V. P., The Texas Co., Houston, Tex.
- LUHR, Otto (1907), Cons. Engr., 1137 Fullerton Ave., and *for mail*, 2642 Potomac Ave., Chicago, Ill.
- LUMMIS, Charles W. (Associate, 1907), Mech. Engr., Camden Iron Wks., and *for mail*, 520 N. 2d St., Camden, N. J.
- LUNDGAARD, Ivar (Junior, 1909), Industrial Engr., Rochester Ry. & Lgt. Co., and *for mail*, 34 Clinton Ave., Rochester, N. Y.
- LUNGER, Waldo G. (Junior, 1901), Mgr., Chicago Branch, Union Twist Drill Co., 547 Washington Blvd., Chicago, and 935 Hinman Ave., Evanston, Ill.
- LUTHER, Flavel Sweeten (1898), Pres., Trinity College, and *for mail*, 115 Vernon St., Hartford, Conn.
- LUTHER, Stephen Grinnell (1907), Asst. Ch. Draftsman, Gas Eng. Dept., Snow Steam Pump Wks., and *for mail*, 469 Prospect Ave., Buffalo, N. Y.
- LYALL, Wm. L. (1887; 1893), Treas., Brighton Mills, and 349 Ayerigg Ave., Passaic, N. J.
- LYLE, Joel Irvine (1906), Mgr., Carrier Air Conditioning Co., 39 Cortlandt St., New York, N. Y., and 1200 W. Seventh St., Plainfield, N. J.
- LYMAN, Dwight E. (1901), Supt., Asa S. Cook Co., Colt's West Armory, and 30 Annawan St., Hartford, Conn.
- LYMAN, Elihu Root (Junior, 1904), Supt., U. S. Heater Co., and *for mail*, 934 Lafayette Blvd., Detroit, Mich.
- LYMAN, James (1899), Engr., Western Dist., Genl. Elec. Co., 1047 Monadnock Bldg., Chicago, and 1308 Maple Ave., Evanston, Ill.
- LYON, J. Lawrence (Junior, 1906), 320 High St., Pawtucket, R. I.
- LYON, Tracy (1893), Asst. to First V. P., Westinghouse Elec. & Mfg. Co., P. O. Box 911, and Woodland Rd., Pittsburg, Pa.
- LYONS, James W. (1902), Pres., Lyons Boiler Wks., DePere, Wis.
- MCARTHUR, Alonzo W. (1904), Boulder, Colo.
- MCARTHUR, Arthur Royal (1906), Dist. Engr., Am. Sheet & Tin Plate Co., and *for mail*, 2718 Main St., Elwood, Ind.
- MCARTHUR, Robt. (1894), Agt., Pepperel Mfg. Co., Biddeford, Me.
- MCBAIN, William Coryell (Junior, 1904), Ch. Engr., Kansas City & Olathe Elec. R. R. Co., Merriam, Kan.
- MCBANE, Walter Watson (Associate, 1908), Designer, William Tod Co., and *for mail*, 525 Bryson St., Youngstown, O.
- MCBRIDE, James (1886), Life Member; Stamford Mfg. Co., Stamford, Conn.
- MCBRIDE, Thomas C. (1908), Sales Mgr., Internat. Steam Pump Co., North Am. Bldg., and 5332 Wayne Ave., Philadelphia, Pa.
- MCCARTHY, Harry (1909), Ch. Draftsman, Natl. Tube Co., and *for mail*, 600 E. Prospect St., Kewanee, Ill.
- MCCARTY, Richard J. (1901), V. P., K. C. So. Ry. Co., Thayer Bldg., and *for mail*, 3820 Warwick Blvd., Kansas City, Mo.
- MCCLATCHEY, A. F. (1889), 132 N. 4th St., Aurora, Ill.
- MCCLELLAN, Wm. (1905), V. P., Champion McClellan Co., 90 West St., New York, N. Y., and 12 Winans St., East Orange, N. J.

- McCLELLAND, E. S. (1891; 1898), Asst. Ch. Engr., Westinghouse Mch. Co., East Pittsburg, and *for mail*, 6837 Thomas Blvd., Pittsburg, Pa.
- McCLINTOCK, Edwd. H. (1901; 1905), Constr. Engr., with Chas. T. Main, Engr., 45 Milk St., Boston, and *for mail*, 222 Willow Ave., West Somerville, Mass.
- McCLURE, O. D. (1907), Master Mech., Cleveland-Cliffs Iron Co., Ishpeming, Mich.
- McCOLL, J. R. (1903), Mech. Engr., Am. Blower Co., and 545 John R. St., Detroit, Mich.
- McCOY, William (Junior, 1903), Mech. Engr., Ayers Mineral Co., and Central Silica Co., and *for mail*, 544 Adair Ave., Zanesville, O.
- McDEVITT, Frank J. (Junior, 1906), V. P. and Mgr., Ohio Steam Specialty Co., and *for mail*, 1011 Mahoning Ave., Youngstown, O.
- McDEWELL, Horatio S. (Junior, 1908), Allis-Chalmers Co., and *for mail*, 6206 Greenfield Ave., West Allis, Wis.
- McDOUGALL, Andrew Horace (1908), Ch. Engr., Whiting Fdy. Equipment Co., and *for mail*, 1542 Lexington Ave., Harvey, Ill.
- McELROY, James Finney (1900), Cons. Engr., Cons. Car Htg. Co., 423 N. Pearl St., and *for mail*, 131 Lake Ave., Albany, N. Y.
- McELROY, Jos. A. (1895), McElroy Bros., Bridgeport, Conn.
- McEVOY, Dermot (1906), Revere Rubber Co., Chelsea, Mass.
- McEWEN, J. H. (1882), Pres. and Genl. Mgr., McEwen Bros., Wellsville, N. Y.
- McFARLAN, Edward (Junior, 1908), 360 Jefferson Ave., Brooklyn, N. Y.
- McFARLAND, A. R. (1902), Wks. Mgr., Solvay Process Co., and 609 Willis Ave., Syracuse, N. Y.
- McFARLAND, Walter Ashfield (1893), Supt., Water Dept., Dist. Bldg., Washington, D. C.
- McFARLAND, Walter M. (1883), Vice-President, 1905-1907; Acting V. P., Westinghouse Elec. & Mfg. Co., P. O. Box 911, and 6941 Thomas Blvd., Pittsburg, Pa.
- McGEORGE, John (1891), Partner, Cleveland Engrg. Co., N. E. Bldg., and 1610 E. 82d St., Cleveland, O.
- McGIFFERT, John Rutherford (1907), Secy. and Treas. Clyde Iron Wks., 29th Ave., W., and Mich. St., and 2032 E. Fifth St., Duluth, Minn.
- McGLONE, Roy G. (Junior, 1909), U. S. Engr. Office, Galveston, Tex.
- McGREGOR, Alexander Grant (Junior, 1905), Engr., Internatl. Smelting & Refining Co., and *for mail*, 118 T St., Salt Lake City, Utah.
- McGREGOR, Hugh R. (1903), Mech. Supt., Brown & Sharpe Mfg. Co., and *for mail*, 75 Holden St., Providence, R. I.
- McGREGOR, John A. (1902), Pres., Union Twist Drill Co., and *for mail*, 1429 Main St., Athol, Mass.
- McGWIRE, Charles H. (1909), Inspr., U. S. P. O., and 392 Woodward Ave., Atlanta, Ga.
- McINTOSH, John E. (1901), McIntosh, Seymour & Co., and 204½ Genesee St., Auburn, N. Y.

- McINTOSH, William (1902), Supt. M. P., Central R. R. of N. J., Jersey City, and 25 Willow Ave., Plainfield, N. J.
- McKAY, John Edwards (1895), Prin. Asst. Engr., Dept. Water Supply, 13-21 Park Row, New York, and 11 Ridgeview Ave., White Plains, N. Y.
- McKEAN, Robert Andrews (1895), Supt., Keystone Wks., Jones & Laughlin Steel Co., 3140 Second Ave., and *for mail*, 714 S. Negley Ave., Pittsburg, Pa.
- McKECHNIE, Robert R. (1897), Mech. Engr., Cleveland, and *for mail*, South Euclid, O.
- McKEE, Arthur Glenn (1907), Cons. and Contr. Engr., 1303 Rockefeller Bldg., Cleveland, O.
- McKEE, Joseph J. (Associate, 1892), Cons. Engr., Jones & McKee, Rm. 522, Singer Bldg., New York, N. Y.
- McKEE, Neal Trimble (Junior, 1907), H. Clay McKee and Sons Co., 71 W. Main St., and 69 W. Main St., Mt. Sterling, Ky.
- McKEE, Robert A. (1908), Engr., Steam Turbine Dept., Allis-Chalmers Co., and *for mail*, 2325 Grand Ave., Milwaukee, Wis.
- McKEEN, Wm. R., Jr. (1908), Pres. and Genl. Mgr., McKeen Motor Car Co., and 301 S. 33d St., Omaha, Neb.
- McKENNAN, Jacob Bowman (Junior, 1899), Mgr., Minnequa Wks., Colo. Fuel & Iron Co., and 2016 Oakland Ave., Pueblo, Colo.
- McKIEVER, Wm. Henry (1900), Everett Bldg., Union Sq., N., and *for mail*, 120 Central Park, S., New York, N. Y.
- McKINNEY, Edward Byron (1907), Supt. of Power, New Orleans Ry. & Light Co., 323 Baronne St., and *for mail*, 1323 Octavia St., New Orleans, La.
- McKINNEY, Robt. C. (1890), Manager, 1902-1905; Vice-President, 1905-1907; Pres., Niles-Bement-Pond Co., Pratt & Whitney Co., 111 Broadway, New York, N. Y.
- McKINNEY, W. S. (1891), Pres., McKinney Mfg. Co., and 310 Aiken Ave., Pittsburg, N. S., Pa.
- McLAUGHLIN, James (1901), Pres., McLaughlin Bros., Inc., 915 Bolton St., Baltimore, Md., and 521 St. James St., and *for mail*, Art Club, Philadelphia, Pa.
- McLAUTHLIN, Martin B. (1909), Engr. and Treas., Geo. T. McLauthlin Co., 120 Fulton St., Boston, and *for mail*, 65 Rockland Ave., Malden, Mass.
- McLEAN, Robert Walter (Junior, 1907), Carver Cotton Gin Co., East Bridgewater, Mass.
- McMEANS, O. E. (Junior, 1904), Cons. Engr., 607 State Life Bldg., and 591 Middle Drive, Woodruff Pl., Indianapolis, Ind.
- McMILLAN, Chas. M. (Junior, 1909), Cons. Engr., King Edward Hotel, 145 W. 47th St., New York, N. Y.
- McMILLIN, Emerson (1895), Life Member; Pres., Am. Light & Traction Co., 40 Wall St., and *for mail*, 320 Riverside Drive, New York, N. Y.
- McMULLEN, Vincent E. (Associate, 1907), Genl. Foreman, Gas Eng. Dept., Fairbanks, Morse Mfg. Co., and *for mail*, 1010 Prairie Ave., Beloit, Wis.
- McMULLIN, Frank V. (1903), Supt., Cleveland City Forge & Iron Wks., and *for mail*, 10,309 Westchester Ave., Cleveland, O.

- McNAIRY, Amos B. (1902), Mfr., Hickox Bldg., Cleveland, O., and New York, N. Y.
- McNAUGHTON, James (1903), V. P., Am. Loco. Co., 30 Church St., and 402 W. 154th St., New York, N. Y.
- MACARTHUR, Robert, Jr. (Associate, 1904), Supt. M. P., Sargent & Co., and *for mail*, 159 Blatchley Ave., New Haven, Conn.
- MACCORD, Charles W. (1902), Emeritus Prof. Mech. Drawing and Designing, Stevens Inst. of Tech., and 60 10th St., Hoboken, N. J.
- MACCORQUODALE, Peter H. (1906), Asst. Supt., Church & Dwight Co., 1416 Willis Ave., and *for mail*, 218 Coleridge Ave., Syracuse, N. Y.
- MACFARLAND, Helon Brooks (1907), Engr. of Tests, Atchison, Topeka & Santa Fe Ry. Co., Topeka, Kan.
- MACGILL, Chas. Frederick (1896), P. O. Box 134, Aurora, Ill.
- MACGREGOR, Wallace F. (Junior, 1901), Supt., Exper. Dept., J. I. Case Threshing Mch. Co., and 1434 Main St., Racine, Wis.
- MACGREGOR, Walter (1906), care Am. Steel Foundries, Indiana Harbor, Ind.
- MACKENZIE, Donald (Junior, 1902), M. E., Swift & Co., 34 N. Market St., Boston, and *for mail*, 11 Alpha Rd., Dorchester, Mass.
- MACLAREN, Malcolm Neill (1899), Milwaukee Coke & Gas Co., Colby & Abbot Bldg., Milwaukee, Wis.
- MACLAUHLAN, James H. (1907), Engr., Am. Cement Engrg. Co., Yorktown, Va.
- MACBETH, Colin (Associate, 1907), Rosemount, Woldingham, Surrey, England.
- MACDONALD, Duncan H. (1903), Genl. Supt., Mech. Dept. Minneapolis Steel & Mchy. Co., Minneapolis, Minn.
- MACDONALD, James V. (Junior, 1895), Builder, 29 W. 34th St., and Hotel Walton, 70th St. and Columbus Ave., New York, N. Y.
- MACFARLANE, James (1908), Supt. Dredging, Isthmian Canal Com., Balboa, Canal Zone, C. A.
- MACHOLD, Charles E. (1901), Mech. Engr., Machold & Riddell, Engrs. and Contrs., Stephen Girard Bldg., Philadelphia, and 17 W. Phil-Ellena St., Germantown, Philadelphia, Pa.
- MACINTIRE, Horace Jas. (Junior, 1907), Instr., Engrg. Dept., Harvard Univ., Pierce Hall, Cambridge, Mass.
- MACK, George J. (Junior, 1909), Mech. Engr., Pub. Service Com., Second Dist., Albany, N. Y.
- MACK, John G. D. (1890), Prof. Mch. Design, College of Engrg., Univ. of Wis., and *for mail*, 110 E. Johnson St., Madison, Wis.
- MACKENZIE, Edmund (1909), Designer, J. G. White & Co., 43 Exch. Pl., New York, and 4510 Sixth Ave., Brooklyn, N. Y.
- MACKENZIE, William Percival (1907), V. P. and Genl. Mgr., Harrisburg Fdy. & Mch. Wks., and P. O. Box 526, also 613 N. Front St., Harrisburg, Pa.
- MACLAREN, James G. (Associate, 1908), Engr., Lamson Cons. Store Service Co., 225 Fifth Ave., New York, and *for mail*, P. O. Box 541, Harrison, N. Y.

- MACLEOD, Daniel T. (1901; 1907), Asst. Engr., Am. Coke & Gas Constr. Co., Second and Cherry Sts., Camden, and *for mail*, 30 Cedar Ave., Merchantville, N. J.
- MACMURRAY, James T. (1904), Genl. Mgr., Niles-Bement-Pond Co., Plainfield, N. J.
- MACON, William Watts (Junior, 1903), Managing Editor, The Metal Worker, 14 Park Pl., New York, and 472 Decatur St., Brooklyn, N. Y.
- MACPHERSON, James Day (1899), Ch. Engr., Adolphus Busch, Pur. Am. Diesel Eng. Co., and *for mail*, 3513 Halliday Ave., St. Louis, Mo.
- MADDOCK, George F. (1903), Mgr., Kanawha Water & Light Co., Charleston, W. Va.
- MADDOCKS, Wm. H. (1891), Asst. Supt. Mchy. and Equip., M., K. & T. Ry., and *for mail*, 2311 W. Crawford Ave., Parsons, Kan.
- MAGEE, John (Junior, 1907), Irrigation, Lands, Drainage, 1128 First Natl. Bank Bldg., Chicago, and Highland Park, Ill.
- MAGIN, Frank W. (Junior, 1907), Allis-Chalmers Co., 71 Broadway, New York, N. Y.
- MAGOUN, Henry A. (1890; 1895), V. P., N. Y. Shipbuilding Co., Camden, N. J.
- MAGRUDER, Wm. T. (1884), Prof. Mech. Engrg., Ohio State Univ., and 342 W. Ninth Ave., Columbus, O.
- MAHL, F. W. (Junior, 1892), Asst. to Dir. Maintenance and Operation, Union Pacific System, and Southern Pacific Co., 135 Adams St., Chicago, and *for mail*, 1019 Mich. Ave., Evanston, Ill.
- MAHON, Wm. L'E. (1889), Salesman, Taylor Iron & Steel Co., 100 Broadway, New York, N. Y., and Ann Arbor, Mich.
- MAIN, Charles T. (1885), Engr., Rms. 817-833, 201 Devonshire St., Boston, and 14 Herrick St., Winchester, Mass.
- MAIR-RUMLEY, John Geo. (1892), Messrs. Gwynnes, Ltd., Hammersmith Iron Wks., London, W., England.
- MAJOR, C. C. (Junior, 1902), Assoc. Prof. Mech. Engrg., Engrg. Hall, Ia. State College, and 802 Iowa St., Ames, Ia.
- MALLORY, Charles K. (1907), Engr. Constr., and Maintenance, Solvay Process Co., and *for mail*, 826 James St., Syracuse, N. Y.
- MALOCHEE, Henry J. (1901), Mech. Engr., 320 Hibernia Bldg., and *for mail*, 2222 Esplanade Ave., New Orleans, La.
- MALTBY, Geo. Beecher (1904), V. P. and Genl. Mgr., Ohio Metallic Packing Co., 721 St. Clair Ave., N. E., and *for mail*, 1931 E. 101st St., N. E., Cleveland, O.
- MALVERN, Lewis K. (1894; 1903), Foreman Mch. Dept., Elgin Natl. Watch Co., Box 64, Elgin, Ill.
- MANLEY, Sumner Marshall (Junior, 1907), M. M., Proctor & Gamble Co., and *for mail*, 633 Schaeffer Ave., Kansas City, Mo.
- MANN, A. S. (1900), Mech. Engr., Genl. Elec. Co., Schenectady, N. Y.
- MANNING, Chas. Henry (1884), Manager, 1893-1895; Vice-President, 1895-1897; Life Member; Ch. Engr., U. S. N., Ret., Genl. Supt., Amoskeag Mfg. Co., and 1838 N. Elm St., Manchester, N. H.

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- MARBLE, Ernest G. (1909), Treas., Am. Ship Windlass Co., and *for mail*, P. O. Box 1138, Providence, R. I.
- MARBLE, Harry Mills (Junior, 1893), Solicitor of Patents, 141 Broadway, New York, N. Y., and 625 Ridge St., Newark, N. J.
- MARBURG, Louis Chas. (1909), 59 Wall St., New York, N. Y.
- MARKHAM, Edward R. (1903), Instr. Mech. Engrg., Rindge Manual Training Sch., Harvard Univ., and 52 Lee St., Cambridge, Mass.
- MARKS, Harry J. (1907), Mech. Engr., 170 Broadway, New York, and *for mail*, 86 Palmer Ave., Mamaroneck, N. Y.
- MARKS, Lionel S. (1897; 1904), Prof. Mech. Engrg., Harvard Univ., and *for mail*, 88 Lake View Ave., Cambridge, Mass.
- MAROT, Edward H. (Junior, 1903), Supt. of Agencies, Hyatt Roller Bearing Co., 801 Trussed Concrete Bldg., and *for mail*, 2424 W. Grand Blvd., Detroit, Mich.
- MARQUINA, Louis G. (1906), Engr., The Peruvian Corp., Ltd., and 520 Plaza Bolognesi, Lima, Peru, South America.
- MARQUIS, Frank W. (Junior, 1908), R. E. Dept., Engrg. Exper. Sta., M. E. Lab., Univ. of Ill., Urbana, and Champaign, Ill.
- MARR, Geo. H. (1891; 1905), Mech. Engr., Hollingsworth & Whitney Co., and *for mail*, 89 Silver St., Waterville, Me.
- MARSH, Thomas Alfred (Junior, 1905), Mech. Engr., Green Eng. Co., 1848 Commer. Natl. Bank Bldg., and *for mail*, 6542 Wash. Ave., Chicago, Ill.
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- MARSHALL, Wm. Crosby (1901; 1909), Asst. Prof. Descriptive Geom. and Drawing, 114 Winchester Hall, S. S. S., Yale Univ., and *for mail*, 201 Edwards St., New Haven, Conn.
- MARTELL, Louis H. (1906), Spec. in Metal Packings, Elyria, O.
- MARTENS, Ferdinand (1885), College Point, L. I., N. Y.
- MARTIN, Edward J. (Junior, 1907), Wks. Mfg., Bantam Anti-Friction Co., Bantam, Conn.
- MARTIN, Frederick Sheldon (1905), Supt. Industrial Motor Dept., Westinghouse Elec. & Mfg. Co., East Pittsburg, and *for mail*, 309 Hutchinson St., Swissville Sta., Pittsburg, Pa.
- MARTIN, Haakon A. (Associate, 1908), Head Invention 5, Natl. Cash Register Co., Dayton, O.
- MARTIN, Mack (1908), Asst. Prof. Mech. Engrg., Wash. State College, and *for mail*, 121 South St., Pullman, Wash.
- MARTIN, Simon Stroock (1903), Supt., Maryland Steel Co., P. O. Box 87, and 520 B St., Sparrows Point, Md.

- MARTINTO, Pedro (Associate, 1901), Apartado 146, Lima, Peru, South America.
- MARX, August (Junior, 1907), Salesman, The G. A. Gray Co., Gest and Depot Sts., Cincinnati, O.
- MARX, Guido Hugo (1901), Prof. Mch. Design, Stanford Univ., and 356 Lincoln Ave., Palo Alto, Cal.
- MARX, Henry (1880; 1892), Pres., The G. A. Gray Co., Gest and Depot Sts., Cincinnati, and 684 S. Crescent Ave., Avondale, Cincinnati, O.
- MARZOLI, Luigi (Junior, 1908), Genl. Mgr. and Supt., Fratelli Marzoli & Cie., Palazzola s/Oglio, Prov. of Brescia, Italy.
- MASON, Daniel A. (1899; 1902), Supt., N. Y. Tribune Bldg., 154 Nassau St., New York, and *for mail*, 372 Stuyvesant Ave., Brooklyn, N. Y.
- MASON, Frederick H. (Associate, 1901), Spec. in feed water purification and htg., power plant specialties, brick and concrete chimney constr., 612 Moffat Bldg., and 53 Seward Ave., Detroit, Mich.
- MASON, William (1880), Suptg. Engr., Winchester Repeating Arms Co., and *for mail*, 569 Elm St., New Haven, Conn.
- MASON, William B. (1893), Pres., Mason Regulator Co., 1190 Adams St., and 15 Medway St., Dorchester Center, Mass.
- MASON, William H. (Junior, 1901), Supt., Edison Portland Cement Co., Stewartsville, N. J.
- MASSA, Robert F. (1904), Creamery Package Mfg. Co., Albany, N. Y.
- MASSEY, Geo. Bragg, 2d (Junior, 1898), Res. Engr., The Bucyrus Co., 1274 Hudson Terminal Bldg., 50 Church St., New York, N. Y., and 11 Belleaire Drive, Montclair, N. J.
- MASURY, Alfred Fellows (Junior, 1904), Mech. Engr., Hewitt Motor Co., and *for mail*, 44 W. 25th St., New York, N. Y.
- MATHESON, Wm. G. (1891), Mgr., I. Matheson & Co., Ltd., New Glasgow, N. S., Canada.
- MATHEWS, William Edwin (1895), Supvr., Inspection and Tests, Norwalk Iron Wks. Co., and 40 West St., South Norwalk, Conn.
- MATHOT, Rodolphe E. (1906), Cons. Engrs., gas engines and power plants, 14 Rue de la Braie, Brussels, Belgium.
- MATLACK, Ellwood V. (1904), 415 Bompert Rd., Webster Groves, Mo.
- MATTES, Wm. F. (1882), Ret., 514 Bd. of Trade Bldg., and 1529 Sanderson Ave., Scranton, Pa.
- MATTHEWS, Fred Elwood (Junior, 1904), Cons. Refrig. Engr., Rm. 901, 90 West St., New York, N. Y.
- MATTHEWS, John G. (1897; 1907), Instr. Mech. Drawing, Cleveland Tech. H. S., Cleveland, and *for mail*, 176 Woodland Ave., Oberlin, O.
- MATTICE, Asa M. (1889), Manager, 1903-1906; Mgr. of Wks., Walworth Mfg. Co., South Boston, Mass.
- MATTON, Fred. V. (1892), Mech. Engr., Camden Iron Wks., Camden, N. J.
- MATTSSON, A. George (1892), Ch. Engr., Great Lakes Engrg. Wks., and *for mail*, 516 Brush St., Detroit, Mich.

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- MAXFIELD, Howard H. (1904), M. M., Pa. R. R. Shops, and 925 Edgewood Ave., Trenton, N. J.
- MAXWELL, Max Carson (1908), Head, Dept. of Applied Mechanics, Sch. of Science and Tech., Pratt Inst., and 56 Lefferts Pl., Brooklyn, N. Y.
- MAY, De Courcy (1881), Manager, 1900-1903; Pres., N. Y. Shipbuilding Co., Camden, N. J.
- MAYALL, E. L. (1909), Genl. Supt., Rock Is. Plow Co., and 1003 Second Ave., Rock Island, Ill.
- MAYER, Fred J. (1897), Genl. Mgr., Didier-March Co., 50 Church St., New York, N. Y.
- MAYER, Louis G. C. (Junior, 1902), 2916 N. Senate St., Indianapolis, Ind.
- MAYO, John B. (1892; 1894), Crocker-Wheeler Co., Ampere, and *for mail*, 456 Fourth Ave., Newark, N. J.
- MAYO, Wm. Benson (1900), Secy and Gen. Mgr., Hoover, Owens, Rentschler Co., Hamilton, O.
- MAYSILLES, John Henry (Junior, 1901), Genl. Foreman, Elec. Loco. and Truck Dept., Am. Loco. Co., and *for mail*, 108 Elmer Ave., Schenectady, N. Y.
- MAYTHAM, Walter John (1905), Ch. Engr., Cowham Engrg. Co., Carter Bldg., and 761 W. Main St., Jackson, Mich.
- MEAD, Daniel W. (1908), Prof. Hyd. and Sanitary Engrg., Univ. of Wis., Cons. Engr., 401 State St., and *for mail*, 1015 Univ. Ave., Madison, Wis.
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- MEES, Curtis A. (Associate, 1908), Designing Engr., S. Power Co., Charlotte, N. C.
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- MEINHOLTZ, Herman Chas. (1909), V. P. and Supt., Heine Safety Boiler Co., 2449 E. Marcus Ave., and *for mail*, 4812 Green Ave., St. Louis, Mo.
- MEISSNER, Charles F. (Junior, 1901), 262 20th St., Brooklyn, N. Y.
- MELCHER, Chas. W. (1890), Chicago Mgr., Ingersoll-Rand Co., 1500 Old Colony Bldg., Chicago, and *for mail*, 36 Hickory St., Hinsdale, Ill.
- MELLEN, Edwin D. (1890), Central Sq., and *for mail*, 1590 Mass. Ave., Cambridge, Mass.
- MELLIN, Carl J. (1890), Cons. Engr., Am. Loco. Co., and *for mail*, 1005 Union St., Schenectady, N. Y.
- MELLOR, Hiram L. (1908), Pres. and Mgr., Lawrence Pump & Eng. Co., and *for mail*, P. O. Box 70, Lawrence, Mass.

- MELVILLE, Geo. W. (1893), Vice-President, 1895-1897; President, 1898-1899; Life Member; Rear Adm., Engr.-in-Chief, U. S. N., Ret., Melville & Macalpine, Cons. Engrs. and Naval Archs., 532 Walnut St., and *for mail*, 620 N. 18th St., Philadelphia, Pa.
- MELVIN, David N. (1880), Life Member; Supt. and Engr., Am. Linoleum Mfg. Co., Linoleumville, Staten Island, N. Y.
- MERKT, G. Adolf (Associate, 1908), Designing Engr., Am. Steel & Wire Co., and *for mail*, 8 Blair St., Worcester, Mass.
- MERRIAM, Henry P. (1887; 1896), 243 Waverly Pl., New York, N. Y.
- MERRILL, Albert S. (Junior, 1903), Univ. Portland Cement Co., Rm. 1830, Commer. Natl. Bank Bldg., Chicago, and *for mail*, 524 Pleasant St., Oak Park, Ill.
- MERRILL, Frank A. (Associate, 1902), Mgr., The Merrill Co., 19 Pearl St., Boston, and *for mail*, 556 Main St., Malden, Mass.
- MERRILL, Geo. H. (Junior, 1898), Secy., Merrill Bros., Maspeth, and 469 Greene Ave., Brooklyn, N. Y.
- MERRILL, Josiah Leverett (Associate, 1904), Dist. Mgr., Burke Elec. Co., 1427 Park Bldg., and 5744 Holden St., Pittsburg, Pa.
- MERRITT, Arthur A. (1907), Mech. Engr., Brown & Sharpe Mfg. Co., Providence, R. I., and 28 Holden St., Worcester, Mass.
- MERRITT, Joseph (1907), Cons. and Constr. Mech. Engr., 315 Pearl St., and 64 Deerfield Ave., Hartford, Conn.
- MERRYWEATHER, Geo. Edmund (1903), Pres., Motch & Merryweather Mchy. Co., 707-715 Lakeside Ave., N. W., and 11326 Hessler Rd., Cleveland, Ohio.
- MERSEREAU, Theodore T. (1905), Pres., Theo. F. Mersereau, Inc., 80 Broad St., New York, and *for mail*, 448 56th St., Brooklyn, N. Y.
- MERSHON, Ralph D. (1900), Cons. Engr., 60 Wall St., and *for mail*, 116 W. 85th St., New York, N. Y.
- MERZ, Robert G. (Junior, 1907), Mech. Engr. and Ch. Draftsman, Am. Process Co., 68 William St., New York, N. Y., and *for mail*, 57 Ninth Ave., Newark, N. J.
- MESICK, D. W. (1892), Prop. and Mgr., Fulton Fdy. & Mch. Co., 25 Furman St., and *for mail*, 98 Hicks St., Brooklyn, N. Y.
- MESTA, George (1894), Pres., Mesta Mch. Co., Pittsburg, and Doyle St., West Homestead, Pa.
- METCALF, F. M. (1907), Mech. Engr., Am. Steam Pump Co., and *for mail*, 99 Fremont St., Battle Creek, Mich.
- METCALF, Leonard (1904), Cons. Civ. Engr., Metcalf & Eddy, 14 Beacon St., Boston, and Concord, Mass.
- METZ, Walter R. (Junior, 1902), Supt. of Bldgs., Govt. Ptg. Office, and *for mail*, 211 A St., N. E., Washington, D. C.
- MEYER, C. Louis (Junior, 1909), Mech. Engr., W. K. Palmer Co., Engrs., Kansas City, Mo., and 210 S. 36th St., Omaha, Neb.
- MEYER, Henry Coddington, Jr. (1894; 1903), Cons. Mech. Engr., Met. Bldg., 1 Madison Ave., New York, N. Y., and Montclair, N. J.
- MICHEL, Arthur Eugene (1906; Associate, 1908), Adv. Engr., 1572 Hudson Terminal Bldg., New York, N. Y.

- MIDDLETON, Harvey (1886), Pres., Thos. C. Basshor Co., Engrs. and Contractors, 28 Light St., and 29 W. Preston St., Baltimore, Md.
- MIDDLETON, Percy Howe (1894; 1901), V. P., H. I. Crandall & Son Co., 102 Border St., East Boston, Mass.
- MIDGLEY, Frederick W. (Junior, 1904), Ch. Draftsman, Otis Elev. Co., and *for mail*, 23 Florence St., Yonkers, N. Y.
- MIGGETT, William Lincoln (1901), Prof. of Shop Practice and Supt. Engrg. Shops, Univ. of Mich., and 712 S. Thaver St., Ann Arbor, Mich.
- MILES, Henry Dixon (1907), Pres., Buffalo Fdy. & Mch. Co., and 139 Bryant St., Buffalo, N. Y.
- MILLER, E. E. (Junior, 1899), Secy. and Mech. Engr., W. H. Allman Co., and *for mail*, 1706 Woodland Ave., Canton, O.
- MILLER, Edward Furber (1888; 1891), Prof. Steam Engrg., Mass. Inst. Tech., Boston, and 538 Ward St., Newton Centre, Mass.
- MILLER, F. Joseph (Junior, 1905), Asst. Engr., Warren Webster & Co., Camden, N. J., and *for mail*, 1312 Bristol St., Philadelphia, Pa.
- MILLER, Frank Louis (Associate, 1907), Erecting Engr., Southwark Fdy. & Mch. Co., Philadelphia, and *for mail*, 304 Everhart St., Johnstown, Pa.
- MILLER, Fred J. (1890), Engrs.' Club, 32 W. 40th St., New York, N. Y.
- MILLER, George H. (1906), Genl. Engr., Am. Thread Co., 549 Main St., and *for mail*, 135 Lincoln St., Holyoke, Mass.
- MILLER, Herman G. (1908), Mech. Engr., Rubber Regenerating Co., and *for mail*, 427 N. Calhoun St., Mishawaka, Ind.
- MILLER, John S. (1900; 1907), Traveling Engr. and Sales Mgr., Yuba Constr. Co., and 625 H St., Marysville, Cal.
- MILLER, Lebbeus B. (1883), Manager, 1893-1896; 1025 E. Jersey St., Elizabeth, N. J.
- MILLER, Spencer (1888), Ch. Engr., Cableway Dept., Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and *for mail*, 217 Turrell Ave., South Orange, N. J.
- MILLER, Theodore Harry (1906), Supt., de Laval Separator Wks., and *for mail*, 40 S. Clinton St., Poughkeepsie, N. Y.
- MILLER, Thomas Harrison (Junior, 1905), Draftsman, with Semet-Solvay Co., and *for mail*, Solvay Club House, Syracuse, N. Y.
- MILLER, Walter (1886), Cons. Engr., 1424 Rockefeller Bldg., Cleveland, and 24 Rosemont Rd., East Cleveland, O.
- MILLETT, Kenneth B. (Junior, 1908), Factory Supt., Protal Co., and *for mail*, 203 Golden Hill St., Bridgeport, Conn.
- MILLHOLLAND, William Knox (1907), Pres., W. K. Millholland Mch. Co., Industrial Bldg., and *for mail*, 3446 N. Capitol Ave., Indianapolis, Ind.
- MILLS, Charles (1907), Supt. of Wks. Saco & Pettee Mch. Shops, Newton Upper Falls, Mass.
- MILLS, Edmund (1903), Marine Dept., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 319 Arlington Ave., Jersey City, N. J.

- MILLSPAUGH, William H. (Associate, 1903), Pres., Sandusky Fdy. & Mch. Co., Sandusky, O.
- MILNE, James (1907), Cons. Engr., 304 Loo Bldg., and 23 Seventh Ave., W., Vancouver, B. C., Canada.
- MILSON, Thomas H. (1903), 528 E. 29th St., Paterson, N. J.
- MINCK, Peter (Junior, 1909), Mech. Engr., with Edwin Burhorn, 71 Wall St., New York, N. Y., and 112 Gardner St., Union Hill, N. J.
- MIRKIL, Thomas H., Jr. (1884), Genl. Mgr., Southwark Fdy. & Mch. Co., Philadelphia, and *for mail*, P. O. Box 7, Cynwyd, Mont. Co., Pa.
- MITCHELL, Albert E. (1891), V. P., Wyckoff Pipe & Creosoting Co., Inc., 50 Church St., New York, N. Y., and Strawberry Hill Ave., Stamford, Conn.
- MITCHELL, Benjamin M. (1894; 1905), Pres., Conveying Weigher Co., Engr. of Tests, N. Y. Lubricating Oil Co., New York, N. Y., and Mech. Engr., Manhattan Rubber Mfg. Co., and *for mail*, 244 Lafayette Ave., Passaic, N. J.
- MITCHELL, Charles J. (1908), Ch. Draftsman, Fairbanks, Morse Mfg. Co., and *for mail*, 836 College Ave., Beloit, Wis.
- MITCHELL, Guy Edward (1903), Genl. Mgr., Alden Sampson Mfg. Co., and *for mail*, 67 Elizabeth St., Pittsfield, Mass.
- MITCHELL, John Hennon (Associate, 1900), Mgr. of Sales, Western Dist., Pressed Steel Car Co., Western Steel Car & Fdy. Co., 1470 Old Colony Bldg., Chicago, and *for mail*, 1031 Judson Ave., Evanston, Ill.
- MITCHELL, William Clark (1901), Genl. Supt., Dominion Iron & Steel Co., Ltd., Sydney, Cape Breton, Canada.
- MIX, Edgar W. (1903), Ch. Engr., Cie. Thomson-Houston, 219 Rue de Vaugirard, and *for mail*, 12 Blvd. des Invalides, Paris, France.
- MIX, Melville W. (1893), Pres. and Mgr., Dodge Mfg. Co., Mishawaka, Ind.
- MIXTER, George W. (1899; 1908), Genl. Supt., Deere & Co., Moline, Ill.
- MOELLER, Franklin (Junior, 1891), Engr., Power & Mining Dept., Wellman-Seaver-Morgan Co., and *for mail*, 7700 Sagamore St., Cleveland, O.
- MOHR, Louis (1886), Secy., and Cons. Engr., John Mohr & Sons, 349 W. Illinois St., and 707 N. Robey St., Chicago, Ill.
- MOHUN, John L. (1904), Elec. Traction Dept., P. T. & T. R. R. Co., 242 W. 31st St., New York, and 562 Seventh St., Brooklyn, N. Y.
- MOLDENKE, Richard (1900), Secy., Am. Foundrymen's Assn., Watchung, N. J.
- MOLE, Harvey E. (1901), Lenz & Molé, 71 Broadway, New York, N. Y.
- MONAGHAN, James F. (1909), Mech. Engr., Waltham Bleachery & Dye Wks., and *for mail*, 2 Oak St., Waltham, Mass.
- MONAGHAN, Wm. Franchère (1886), Life Member; Engrg. Dept., N. Y. Edison Co., 55 Duane St., and 117 W. 71st St., New York, N. Y.

- MONNOT, John Ferreol (1909), Cons. Engr., Duplex Metals Co., V. P., Hudson Wire Co., and *for mail*, 31, Rue Daru, Paris, France.
- MONKS, Archibald G. (Associate, 1908), Partner, Monks & Johnson, 7 Water St., Boston, and Brookline, Mass.
- MONKS, Wm. Douglas (Junior, 1908), 353 S. Third Ave., Mt. Vernon, N. Y.
- MONROE, Wm. Stanton (1896; 1901), Mech. Engr., Sargent & Lundy, 1720 Ry. Exch. Bldg., and 1235 N. State St., Chicago, Ill.
- MONTAGUE, Chas. Dwight (1905), 66 Waldorf Court, Brooklyn, N. Y.
- MONTEAGLE, Robt. Chas. (1904), Ch. Engr., Atlantic Wks., East Boston, and *for mail*, 8 Winthrop St., Winchester, Mass.
- MONTGOMERY, H. M. (1889), Chicago Mgr., Alberger Condenser Co., 205 LaSalle St., Chicago, and 1221 Davis St., Evanston, Ill.
- MOODY, Herbert A. (1901; Associate, 1905), Industrial Engr., Sandy Hill, N. Y.
- MOODY, William O. (1907), Mech. Engr., Ill. Central R. R., and *for mail*, 3539 Ellis Ave., Chicago, Ill.
- MOON, Hartley Allen (Associate, 1908), Ch. Draftsman, Continental Gin Co., Birmingham, Ala.
- MOORE, Albert B. (1903), Ch. Engr., Griffin Wheel Co. of Chicago, and *for mail*, 5426 Jefferson Ave., Chicago, Ill.
- MOORE, Allen H. (1902), Genl. Elec. Co., Schenectady, and *for mail*, 352 Western Ave., Albany, N. Y.
- MOORE, Charles A. (Associate, 1880), Pres., Manning, Maxwell & Moore, Inc., 85-89 Liberty St., and P. O. Box 1400, New York, N. Y.
- MOORE, D. G. (1890), 1 Broadway, New York, N. Y., and *for mail*, 424 Westminster Ave., Elizabeth, N. J.
- MOORE, Edwin A. (1908), Pres., Am. Coke & Gas Constr. Co., P. O. Box 351, Second and Cherry Sts., Camden, N. J., and 2216 N. 52d St., Wynnefield Ave., Philadelphia, Pa.
- MOORE, Fredk. Clouston (1905), Supt., Osborne Wks., Internatl. Harvester Co., and *for mail*, 12 Elizabeth St., Auburn, N. Y.
- MOORE, Harold T. (Associate, 1907), Production Engr., Bridgeport Brass Co., and *for mail*, Univ. Club, Bridgeport, Conn.
- MOORE, Lee C. (1902), Cons. Mech. Engr., Lee C. Moore & Co., 341 Sixth Ave., and *for mail*, 1815 Mansion Ave., N. S., Pittsburg, Pa.
- MOORE, Miller F. (1891), 145 E. 4th Ave., Roselle, N. J.
- MOORE, R. S. (1892), Manager, 1901-1904; Life Member; Prep., Moore & Scott Iron Wks., Main and Howard Sts., San Francisco, Cal.
- MOORE, Samuel L. (1907), V. P. and Genl. Mgr., Moore Bros. Co., and *for mail*, 117 Stiles St., Elizabeth, N. J.
- MOORE, Stanley H. (1900; Associate, 1903), Dir., Mech. Arts, McKinley H. S., Missouri and Russell Aves., St. Louis, Mo.
- MOORE, Wm. Enoch (1903), Cons. Engr., West Pa. Ry. & Ltg. Properties, and Am. Water Wks. & Guarantee Co., 603 Bank for Savings Bldg., Pittsburg, Pa.

- MORA, Rafael de la (Junior, 1897), Mech. and Hyd. Engr., Govt's Cons. Engr., and P. O. Box 269, and 654 Hidalgo St., Guadalajara, Jal., Mexico.
- MORAN, Daniel E. (1886; 1904), V. P. and Dir., Foundation Co., 115 Broadway, New York, N. Y., and Mendham, Morris Co., N. J.
- MORAT, Jacques (1909), Spuyten Duyvil, N. Y.
- MORAVA, Wensel (1886), Pres., Morava Constr. Co., 1245 Marquette Bldg., and 5621 Monroe Ave., Chicago, Ill.
- MOREHOUSE, William S. (1896; 1899), 28 Beacon St., Fishkill-on-Hudson, N. Y.
- MORETON, George Wm. (1909), Genl. Supt., Betts Mch. Co., and 1323 Gilpin Ave., Wilmington, Del.
- MORFORD, Thomas E. (1902), Mgr., N. Y. Office, Am. Steam Pump Co., 17 Battery Pl., New York, N. Y.
- MORGAN, Charles H. (1881), Manager, 1884-1887; President, 1899-1900; Pres., Morgan Const. Co., and Morgan Spring Co., 21 Lincoln St., and *for mail*, 28 Catherine St., Worcester, Mass.
- MORGAN, John R. (1901), Mech. Engr., 261 Van Buren St., Gary, Ind.
- MORGAN, Joseph (1881), Vice-President, 1886-1888; Cons. Engr., Cambria Steel Co., and *for mail*, 408 Tioga St., Westmont, Johnstown, Pa.
- MORGAN, Lewis Henry (1904; 1906), Whitewell, Nantwich, Cheshire, England.
- MORGAN, Llewellyn (Junior, 1904), Mech. Engr., Dobbie Fdy. & Mch. Co., 82 Warren St., New York, N. Y.
- MORGAN, Paul B. (1891; 1900), Treas., Morgan Constr. Co., 21 Lincoln St., and 21 Cedar St., Worcester, Mass.
- MORGAN, Ralph Landers (1900; 1902), Pres. and Ch. Engr., R. L. Morgan Co., Cambridge St., and 96 William St., Worcester, Mass.
- MORGAN, Wm. F. (Associate, 1906), N. E. Agt., Am. Mfg. Co., 107 Ames Bldg., and Beacon and Joy Sts., Boston, Mass.
- MORITZ, Albert (1905), Comdr., U. S. Navy, Ret., 723 E. 18th St., Brooklyn, N. Y.
- MORLEY, Ralph (Junior, 1906), Mech. Engr., Transmission Dept., The Fairbanks Co., New York, and *for mail*, 563 Ninth St., Brooklyn, N. Y.
- MORRIN, Thos. (1897), Cons. Mech. Engr., Balboa Bldg., and 1353 Jackson St., San Francisco, Cal.
- MORRIS, Henry G. (1882), V. P., 1887-1889; 333 Walnut St., Philadelphia, Pa.
- MORRIS, Wm. S. (1897), 813 W. Berry St., Fort Wayne, Ind.
- MORRISON, Clarke J. (1909), 52 E. 19th St., New York, N. Y.
- MORRISON, Egbert R. (Junior, 1906), Asst. Mgr., Sharon Boiler Wks., and *for mail*, Morrison & Martin, Pat. Engrs., Sharon, Pa.
- MORRISON, Herbert H. (1898; 1904), Cons. Engr., Syndicate Trust Bldg., St. Louis, Mo.
- MORRISON, Hugh Stockdell (1901; Associate, 1904), Mech. Engr., 18th and Dock Sts., and *for mail*, 309 S. Fourth St., Richmond, Va.

- MORRISON, Hunter (Junior, 1903), Sales Mgr., Hill Clutch Co., W. 58th St., and 1884 E. 84th St., Cleveland, O.
- MORRISON, James (Junior, 1904), Supt., Cincinnati Time Recorder Co., 1725 Central Ave., Cincinnati, and *for mail*, Ludlow Ave., Clifton, Cincinnati, O.
- MORRISON, William (Junior, 1900), 315 Fourth Natl. Bank Bldg., Cincinnati, and *for mail*, Ludlow Ave., Clifton, Cincinnati, O.
- MORROW, Percy C. (1901; 1903), Mech. Engr., Baldwin Loco. Wks. of Phila., 219 W. Overland St., El Paso, Texas.
- MORSE, Chas. H., Jr. (1897; 1904), Pres., Fairbanks Morse Co., 481 Wabash Ave., and *for mail*, 1132 E. 49th St., Chicago, Ill.
- MORSE, Chas. M. (1884), Ch. Engr., Buffalo Engrg. Co., 9 Erie Co. Bank Bldg., and 246 Bryant St., Buffalo, N. Y.
- MORSE, Everett Fleet (1901), Morse Thermo Gage Co., 208 E. State St., and 111 Eddy St., Ithaca, N. Y.
- MORSE, William A. (1903), Engr. in charge of Wks., Mech. Engrg. Dept., Otis Elev. Co., and *for mail*, 21 Union Pl., Yonkers, N. Y.
- MORSE, William Horace (1901; 1903), 167 Pleasant St., Worcester, Mass.
- MORTENSEN, Caspar (Junior, 1899), Designer, Mch. Tool Dept., Genl. Elec. Co., and *for mail*, 220 Broadway, Schenectady, N. Y.
- MORTON, Geo. L. (1890), Prin. Examiner, Instruments of Precision, Rm. 264 U. S. Pat. Office, and *for mail*, Flat 503, The Ontario, Washington, D. C.
- MOSELEY, Alexander Willett (1900), Prof. Mechanics, Head Dept. Engrg., Lewis Inst., Chicago, and Evanston, Ill.
- MOSMAN, Chas. Tyler (1909), Engr., Genl. Elec. Co., 84 State St., Boston, and Winchester, Mass.
- MOSS, Sanford A. (1903), Engr., Turbine Research Dept., Genl. Elec. Co., West Lynn, and 36 Sachem St., Lynn, Mass.
- MOSSBERG, Frank (1895), Pres. and Genl. Mgr., Frank Mossberg Co., also V. P. and Cons. Engr., Standard Mch. Co. of Providence, R. I., and *for mail*, 141 Pleasant St., Attleboro, Mass.
- MOTT, Abram Cox, Jr. (Junior, 1907), Second V. P. and Genl. Mgr., Abram Cox Stove Co., American and Dauphin Sts., Philadelphia, and The Woods, Box 71, Lansdale, Pa.
- MOTT, Chas. Stewart (1898; 1909), Pres. and Genl. Mgr., Weston-Mott Co., Flint, Mich.
- MOULTHROP, Leslie (Associate, 1891), Receiver, Dwight Slate Mch. Co., and *for mail*, 620 Orange St., New Haven, Conn.
- MOULTROP, Irving E. (1902), Manager, 1908-1911; Mech. Engr., Edison Elec. Ill. Co. of Boston, 39 Boylston St., Boston, and 812 Blue Hill Ave., Dorchester, Mass.
- MOUNT, Wm. Dye (1892; 1897), Genl. Supt., Mathieson Alkali Wks., Saltville, Va.
- MOWERY, John N. (1906), Asst. M. M., L. V. R. R. Offices, Auburn, N. Y.
- MOXHAM, Egbert (Junior, 1906), Mgr., Pulp Key Dept., E. I. du Pont de Nemours Co., and *for mail*, 1204 Rodney St., Wilmington, Del.
- MOYER, Allen V. (Junior, 1909), Asst. Secy., Lyons Boiler Wks., P. O. Box 221, De Pere, Wis.

- MOYER, James A. (1907), Asst. Prof. Mech. Engrg., in charge Mech. and Hyd. Labs., Univ. of Mich., Ann Arbor, Mich., and Norristown, Pa.
- MOYER, Samuel Lyon (Junior, 1899), First V. P., The Lunkenheimer Co., P. O. Box 876, and 803 Race St., Cincinnati, O.
- MUCKLE, John S. (1904), Mech. Engr., West End Trust Bldg., and 2023 Walnut St., Philadelphia, Pa.
- MUCKLE, M. R., Jr. (1885), Mech. Engr., 1722 Pine St., Philadelphia, Pa.
- MUELLER, Otto Nicholas (Junior, 1907), Ch. Engr., Noelke Richards Iron Wks., and *for mail*, 2908 N. Meridian St., Indianapolis, Ind.
- MUELLER, Victor H. (Junior, 1907), Ch. Draftsman, M. W. Kellogg Co., 117 West Side Ave., Jersey City, and *for mail*, 107 N. Fourth St., Newark, N. J.
- MUHLFELD, John E. (1908), Genl. Supt. M. P., B. & O. R. R., and *for mail*, 2214 Enton Pl., Baltimore, Md.
- MUIR, John J. (1896), Mech. Supt., Bass Fdy. & Mch. Co., and *for mail*, 2221 Fairfield Ave., Fort Wayne, Ind.
- MULLANEY, John J. (1901), Pres., Ideal Opening Die Co., 24 West St., New York, N. Y.
- MULLEN, John (1886), Pres., Shamokin Iron Wks., 516 N. Franklin St., and 129 S. Shamokin St., Shamokin, Pa.
- MULLER, Edward A. (1890), Secy. and Genl. Mgr., King Mch. Tool Co., Winton Pl., Cincinnati, and *for mail*, 5500 Main St., Madisonville, O.
- MULLER, Paul (1903), Ch. Draftsman, Sprague Elec. Co., Bloomfield, N. J., and *for mail*, 532 Warren St., Newark, N. J.
- MULLER, Teile H. (1888), Engrs'. Dept., Federal Sugar Refining Co., 138 Front St., and *for mail*, 72 W. 131st St., New York, N. Y.
- MUMFORD, Edgar Huidekoper (1887; 1892), V. P. and Genl. Mgr., Mumford Molding Mch. Co., 30 Church St., New York, N. Y., and *for mail*, 320 S. Fourth St., Philadelphia, Pa.
- MUNBY, E. John (1906), 361 Broadway, and *for mail*, 208 W. 59th St., New York, N. Y., also Baddow Park, Essex, England.
- MUNCASTER, Walter J. (1887), V. P. and Genl. Mgr., Cumberland Steel Co., and 26 S. Mechanic St., Cumberland, Md.
- MUNSON, Edmund G. (1908), Supt. and Secy., Munson Bros. Co., Utica, N. Y.
- MURPHY, Benjamin Stewart (Junior, 1905), Mech. Inspr., Hudson & Manhattan R. R., 30 Church St., New York, N. Y., and *for mail*, 254 Fourth St., Jersey City, N. J.
- MURPHY, Edward J. (1880), M. E. and Cons. Engr., Hartford Steam Boiler Insp. & Ins. Co., and *for mail*, The Linden, 427 Main St., Hartford, Conn.
- MURPHY, Edward Thomas (Junior, 1905), Mgr., Phila. Office, Buffalo Forge Co., 1303 Land Title Bldg., and 267 S. 55th St., Philadelphia, Pa.
- MURPHY, Frederick E. (1897), Ch. Engr., Am. Sugar Refining Co., Standard Refinery, Granite St., Boston, and *for mail*, 31 Sagamore St., Dorchester, Mass.
- MURPHY, John Killam (Junior, 1904), Winchester Repeating Arms Co., and *for mail*, P. O. Box 1234, New Haven, Conn.

- MURPHY, John Z. (1899), Ch. Engr., Chicago Rys. Co., 700 Boatland Bldg., and *for mail*, 3716 Lexington St., Chicago, Ill.
- MURRAY, Arthur F. (Junior, 1908), Blake & Knowles Steam Pump Wks., East Cambridge, Mass.
- MURRAY, Charles R. (Associate, 1899), Supt., Barnhart Bros. & Spindler, 183-187 Monroe St., Chicago, and 1714 Asbury Ave., Evanston, Ill.
- MURRAY, George R. (1903), Pres., Maxwell Rolf Stone Co., 586 The Arcade, Cleveland, O.
- MURRAY, Henry H. (1899; 1905), Ch. Draftsman, Victor Talking Mch. Co., Camden, and *for mail*, 406 Lippincott Ave., Riverton, N. J.
- MURRAY, J. Weidman (1901), Mgr., Pittsburg Office, Allis-Chalmers Co., 814 Frick Bldg., and 6024 Jackson St., E. E., Pittsburg, Pa.
- MURRAY, Thomas Edward (1894), Second V. P. and Genl. Mgr., N. Y. Edison Co., 57 Duane St., New York, and 783 St. Marks Ave., Brooklyn, N. Y.
- MURRIE, John L. (Junior, 1905), Mech. Engr., Pub. Service Com., First Dist., Tribune Bldg., and *for mail*, 65 W. 94th St., New York, N. Y.
- MUTHER, Ellis F. (Associate, 1907), Industrial Engr., Eastern Sales Mgr., Gisholt Mch. Co., Rm. 1253, 50 Church St., New York, N. Y.
- MYERS, Cornelius T. (Associate, 1908), Asst. Secy. and Treas., Wis. Eng. Co., Corliss, and 419 Tenth St., Racine, Wis.
- MYERS, Curtis Clark (Junior, 1905), Shop Co-ordinator, Univ. of Cincinnati, and 3432 Lyleburn Pl., Cincinnati, O.
- MYERS, David Moffat (Associate, 1907), Cons. Mech. Engr., Rm. 2401, Park Row Bldg., and 309 W. 70th St., New York, N. Y.
- NAEGELE, John C. (1901), Engr. and Arch., 73 Rochelle Ave., Wissahickon, Philadelphia, Pa.
- NAGLE, A. F. (1880), care E. G. Grace, Genl. Mgr., Bethlehem Steel Co., South Bethlehem, and 22 S. High St., Bethlehem, Pa.
- NAPHTALY, Sam L. (1907), Genl. Supt., City Elec. Co., 347 Grant Ave., and *for mail*, Fairmount Hotel, San Francisco, Cal.
- NASH, Lewis H. (1891), Mech. Engr., Natl. Meter Co., 42d St. and First Ave., and *for mail*, 248 Gates Ave., Brooklyn, N. Y., also Pres., Nash Engrg. Co., 40 Water St., South Norwalk, Conn.
- NATE, Emile Henry (Junior, 1904), Mech. Engr., 154 Seymour Ave., Newark, N. J.
- NATHAN, Alfred (Junior, 1891), Pres., Nathan Mfg. Co., 85 Liberty St., and 36 E. 72d St., New York, N. Y.
- NAUGHTEN, James (Junior, 1901), Mech. Engr., 304 E. Broadway, Butte, Mont.
- NAYLOR, Chas. Wm. (1905), Ch. Engr., Marshall Field & Co., 83 State St., and *for mail*, 4429 Congress St., Chicago, Ill.
- NAYLOR, John Samuel (1887), Prop., People's Wks., Front St. and Girard Ave., and Chestnut Hill, Philadelphia, Pa.
- NEAVE, Pierson Mitchell (Junior, 1903), Engr., Western Elec. Co., Bethune and West Sts., New York, and 67 Penn St., Brooklyn, N. Y.

- NEELY, Frank H. (Junior, 1908), Industrial Engr., 70 Madison Ave., 231 W. Peachtree St., Atlanta, Ga.
- NEELY, Fred L. (Junior, 1909), Allis-Chalmers Co., Fourth Natl. Bank Bldg., Atlanta, Ga.
- NEFF, Elmer Hartson (1898), Life Member; N. Y. Mgr., Brown & Sharpe Mfg. Co., Rm. 700, 20 Vesey St., New York, N. Y.
- NEILER, Samuel Graham (1907), Pres., Pierce, Richardson & Neiler, 1409-12 Manhattan Bldg., Chicago, and Oak Park, Ill.
- NEILSON, Frederick C. (Associate, 1908), P. O. Box 472, West Hartford, Conn.
- NELSON, James W. (Associate, 1904), Mgr., Richard Dudgeon, 82 Broome St., New York, and 61 Livingston St., Brooklyn, N. Y.
- NESBIT, Edwin (1907), Zinc Engr., Grasselli Chem. Co., Cleveland, O.
- NETTLETON, William Alpheus (1905), Genl. Supt. Motive Power, Chicago, Rock Is. & Pac. Ry. Co., Rm. 935, La Salle St. Sta., and 34 Bellevue Pl., Chicago, Ill.
- NEUHAUS, Fritz A. E. (1898; 1906), Ch. Engr., and Genl. Supt., A. Borsig, Tegel, Berlin, and Olivaerplatz 7, Charlottenburg, Germany.
- NEUREUTHER, Andrew Henry (Junior, 1899), Mech. Engr., Western Clock Mfg. Co., La Salle, and *for mail*, 1511 Fourth St., Peru, Ill.
- NEVILL, David J. (1900), M. E., Stearns Roger Mfg. Co., and 1358 Ogden St., Denver, Colo.
- NEWBURY, George K. (Junior, 1904), 10 Y. M. C. A. Bldg., Harrisburg, Pa.
- NEWCOMB, Chas. L. (1883), Pres., Mech. Engr., and Genl. Mgr., Deane Steam Pump Co., and *for mail*, 57 Fairfield Ave., Holyoke, Mass.
- NEWCOMB, Chas. L., Jr. (Associate, 1908), Deane Steam Pump Co., and *for mail*, 57 Fairfield Ave., Holyoke, Mass.
- NEWCOMB, Robert E. (Junior, 1907), M. E., Deane Steam Pump Co., and 57 Fairfield Ave., Holyoke, Mass.
- NEWCOMB, Robert Scott (Junior, 1909), Draftsman, Griscom-Spencer Co., Jersey City, N. J., and *for mail*, 225 West End Ave., New York, N. Y.
- NEWELL, Charles Z. (Junior, 1904), Mech. Engr., Federal Leather Co., Suite 202-203, 47 W. 42d St., New York, and *for mail*, 101 N. Broadway, Yonkers, N. Y.
- NEWELL, Harvey E. (Junior, 1901), Salesman, Arch. Record Co., 11 E. 24th St., New York, and *for mail*, 87 N. Broadway, Yonkers, N. Y.
- NEWELL, William (Junior, 1907), Ch. Insp., Factory, Fidelity & Casualty Co., 97 Cedar St., New York, N. Y., and 29 S. Mountain Ave., Montclair, N. J.
- NEWLIN, Alexander Z. (1909), Mech. Engr., Natl. Tube Co., and *for mail*, 600 S. Tremont St., Kewanee, Ill.
- NEWTON, Charles E. (Associate, 1895), Treas., Jewell Belting Co., 53 Trumbull St., and 19 Marshall St., Hartford, Conn.
- NEWTON, Lewis W. (1903), Engr., Rm. 629, Wabash Bldg., Pittsburgh, and Glenfield, Pa.

- NEWTON, Peter Augustin (1905), Asst. Genl. Supt., Ill. Steel Co., South Wks., South Chicago, and *for mail*, 5006 Madison Ave., Chicago, Ill.
- NIBECKER, Karl (Junior, 1908), Mech. Engr., Southwark Fdy. & Mch. Co., Fifth and Washington Ave., Philadelphia, and Glen Mills, Pa.
- NICHOLL, John Seymour (Junior, 1909), Acting Mgr., F. W. Horne, Importer Am. Mchy., 70-C, P. O. Box 174, Yokohama, Japan.
- NICHOLS, Charles H. (1908), Cons. Engr., 42 E. 23d St. and 63 W. 127th St., New York, N. Y.
- NICHOLS, John T. (Junior, 1903), 315 King St., Pottstown, Pa.
- NICHOLS, William Wallace (1899), V. P. and Secy., Allis-Chalmers Co., 71 Broadway, New York, N. Y.
- NICHOLSON, Saml. T. (1904), Pres. and Genl. Mgr., Vulcan Iron Wks., and *for mail*, 187 Hanover St., Wilkes-Barre, Pa.
- NICKEL, Franz F. (1899), Cons. Engr., Jeanesville Iron Wks. Co., and *for mail*, P. O. Box 391, Hazleton, Pa., also 27 Winans St., East Orange, N. J.
- NICKERSON, Alvano T. (1901), W. S. Barstow & Co., 50 Pine St., and 622 W. 135th St., New York, N. Y.
- NICKERSON, Ralph R. (Junior, 1907), Geo. F. Blake Mfg. Co., and *for mail*, 65 Otis St., East Cambridge, Mass.
- NICKLIN, Ernest W. (1900; Associate, 1907), Mech. Engr., Detroit Brass Wks., and *for mail*, 421 Cadillac Blvd., Detroit, Mich.
- NILES, Francis H. (Associate, 1907), Pres. and Genl. Mgr., Blue Island Car Equip. Co., and *for mail*, 5437 Cornell Ave., Chicago, Ill.
- NINDE, William Edward (1899; 1903), Instr., Heat Eng. Design, Syracuse Univ., and *for mail*, 202 Maryland Ave., Syracuse, N. Y.
- NISTLE, George W. (1901), Secy., Ill. Engrg. Co., 315 Dearborn St., Chicago, Ill., and *for mail*, R. F. D. No. 8, Muskegon, Mich.
- NOBLE, Alfred (1907), 7 E. 42d St., and 501 W. 120th St., New York, N. Y.
- NOBLE, Patrick (1892), Pres., Pacific Rolling Mill Co., 908 Crocker Bldg., and 2402 Clay St., San Francisco, Cal.
- NOLDE, Frederick (Junior, 1901), Sales Agt., De La Vergne Mch. Co., 138th St. and East River, New York, N. Y.
- NOLL, Jacob M. (Junior, 1906), Asst. Ch. Draftsman, Warren Webster & Co., Camden, and *for mail*, N. W. cor. Lees and Merrick Aves., Collingswood, N. J.
- NORBOM.—John O. (1900), Min. Engr., 521-522 Sheldon Bldg., San Francisco, and Alta Vista Apts., Berkeley, Cal.
- NORCROSS, J. Arnold (1900), Life Member; Secy. and Treas., New Haven Gas Light Co., New Haven, Conn.
- NORDBERG, Bruno Victor (1893), V. P. and Ch. Engr., Nordberg Mfg. Co., and *for mail*, 512 Logan Ave., Milwaukee, Wis.
- NORDBERG, Carl Victor (1908), Rep., Nordberg Mfg. Co., 102 Lewisohn Bldg., Butte, Mont.
- NORDEN, Carl L. (Junior, 1908), Draftsman, Lidgerwood Mfg. Co., A. Norden & Co., Cotton Exch. Bldg., New York, and *for mail*, 424 E. Fifth St., Brooklyn, N. Y.

- NORDMEYER, Louis C. (Junior, 1899), Secy. and Treas., Tait, Nordmeyer Engrg. Co., Wright Bldg., and 4256 Shenandoah St., St. Louis, Mo.
- NORRIS, Almon E. (1900), Ch. Engr., Mead-Morrison Mfg. Co., 31 Main St., Cambridgeport, and *for mail*, 57 Avon Hill St., Cambridge, Mass.
- NORRIS, Edson R. (1906), Supt., Mfg. Methods and Labor Costs, Westinghouse Elec. & Mfg. Co., East Pittsburg, and *for mail*, 205 Vine St., Edgewood Park, Pa.
- NORRIS, Henry Lee (Junior, 1904), Supt. Bldgs. and Grounds, Columbia Univ., and Livingston Hall, Columbia Univ., New York, N. Y.
- NORRIS, Henry McCoy (1892; 1898), Supt., Engr. and Wks. Mgr., Bickford Drill & Tool Co., Front and Pike Sts., Cincinnati, O.
- NORRIS, J. H. (1891; 1905), 4207 First Ave., Brooklyn, N. Y.
- NORRIS, James U. (Junior, 1907), Supt., Rockefeller Inst. for Medical Research, 66th St. and Ave. A, New York, N. Y.
- NORRIS, Robert V. (1885; 1891), Cons. Engr., 524 Second Natl. Bank Bldg., and 40 S. Franklin St., Wilkes-Barre, Pa.
- NORRIS, Wm. H. (1904), Mech. Engr., Phila. Elec. Co., 1000 Chestnut St., and 3622 Chestnut St., Philadelphia, Pa.
- NORRIS, William H., Jr. (Junior, 1909), Engr., W. R. Grace & Co., and *for mail*, 1 Hanover Sq., New York, N. Y.
- NORTHROP, Francis B. (Junior, 1905), Mech. Engr., 106 Day St., Orange, N. J.
- NORTON, Fred Elmer (1907), Ch. Engr., William Tod Co., Youngstown, O.
- NORTON, Frederick Lee (Associate, 1904), Genl. Mgr., J. I. Case Threshing Mch. Co., Racine, Wis.
- NORTON, Harold P. (1906), Commander U. S. N., Bureau of Steam Engrg., Navy Dept., and Stoneleigh Court, Washington, D. C.
- NORTON, Wendell P. (1903), Supt., Hendey Mch. Co., Torrington, Conn.
- NOURSE, Franklin (1896), Agt., Lawrence Mfg. Co., and 53 Mansur St., Lowell, Mass.
- NOYES, Henry (1899), Life Member; Noyes Bros., 153-7 William St., Melbourne, and Holmby Malvern, Victoria, Australia.
- NOYES, Henry Taylor, Jr. (Associate, 1904), Treas., German-American Button Co., Rochester, N. Y.
- NOYES, Wm. S. (1896), Min. Engr., 819 Mills Bldg., San Francisco, Cal.
- NUNN, Paul N. (1904), Provo, Utah.
- OBERT, Casin W. (Associate, 1904), Secy. and Treas., Brooklyn Mch. Co., 963 Atlantic Ave., and *for mail*, 255 Marlborough Rd., Flatbush, Brooklyn, N. Y.
- ODE, Randolph Theodore (1901; 1908), Secy., Providence Engrg. Wks., Providence, and 557 Fruit Hill Ave., North Providence, R. I.
- ODELL, W. H. (1880), Mech. Engr., specialty, economic generation and application of steam, 58 Carolina Ave., Yonkers, N. Y.
- OHLE, Ernest L. (1906; 1908), Prof. Mech. Engrg., Washington Univ., and 5628 Etzel Ave., St. Louis, Mo.

- OHMES, Arthur K. (1909), Member of Firm, Nygren, Tenney & Ohmes, 87 Nassau St., New York, N. Y.
- O'KEEFE, James G. (Junior, 1907), Asst. Supt. Distribution, Pub. Service Gas Co., 35 Front St., and *for mail*, 925 S. 16th St., Newark, N. J.
- OLIN, F. W. (Associate, 1895), Pres., Equitable Powder Mfg. Co., and Western Cartridge Co., and Union Cap & Chemical Co., East Alton, and *for mail*, 1128 State St., Alton, Ill.
- OLIPHANT, J. Norris (Junior, 1902), 20 Broad St., New York, N. Y.
- OLIVER, E. C. (Junior, 1902), 519 Cass Ave., Detroit, Mich.
- OLMSTEAD, George C. (Junior, 1909), Mech. Engr., 635 Vine St., Chattanooga, Tenn.
- O'NEIL, Frederick Wm. (1901; 1908), N. Y. Mgr., Nordberg Mfg. Co., Rm. 1009, 42 Broadway, New York, and 260 Pelham Rd., New Rochelle, N. Y.
- O'NEIL, John Francis (1908), Pres., Fulton Iron Wks., and 4236 W. Pine Blvd., St. Louis, Mo.
- O'NEIL, J. G. (Associate, 1904), Contr. Engr., 304 Rookery Bldg., and 5919 Calumet Ave., Chicago, Ill.
- ORCUTT, Guy H. (Junior, 1909), Testing Engr., Allis-Chalmers Co., and *for mail*, 6111 Woodlawn Ave., Chicago, Ill.
- ORCUTT, Harry Fred Lee (1900), London Mgr., Birmingham Small Arms Co., Ltd., Smallheath, Birmingham, and *for mail*, Sutton-on-Sea, Lincolnshire, England.
- ORD, Henry C. (1905), Genl. Elec. Co., and *for mail*, 170 S. Common St., Lynn, Mass.
- ORR, Alexander Macklin, Jr. (Junior, 1898), Mgr., H. J. Gielow, Engr., Naval Arch. and Marine Broker, 52 Broadway, and *for mail*, 132 E. 72d St., New York, N. Y.
- ORROK, Geo. A. (1902), Mech. Engr., N. Y. Edison Co., 55 Duane St., New York, and *for mail*, 232 E. 17th St., Flatbush, N. Y.
- OSBORNE, Charles T. (1908), Mech. Engr., Osborne, Rea & Co., 241 W. 41st St., and 254 W. 100th St., New York, N. Y.
- OSBOURN, Millard P. (Junior, 1901), Mech. Engr., Joseph Campbell Co., Camden, and *for mail*, 14 Franklin Ave., Merchantville, N. J.
- OSGOOD, John L. (1898), Mfr. and Dealer in Mch. and Tools, 121 and 138 Erie Co. Bank Bldg., and 540 Mass. Ave., Buffalo, N. Y.
- OSTEMAN, Carl G. (1907), Mech. Engr. and Designer, S. A. Woods Mch. Co., South Boston, and 43 Newport St., Dorchester, Mass.
- OSTRANDER, Allen Edward (Associate, 1905), Asst. Mech. Engr., Am. Car & Fdy. Co., 165 Broadway, New York, N. Y., and Wydmere Ave., Ridgewood, N. J.
- OSWALD, William (1899), Commerzienrath, Bergassessor a. D., Rheinzollstrasse 6, and Rheinanlagen 1 B, Coblenz, Germany.
- OTIS, Spencer (1890), Mech. Engr., 517 Ry. Exch. Bldg., and 4144 Sheridan Rd., Chicago, Ill.
- OTTO, Henry S. (Junior, 1909), Mch. Importer, Messrs. Munroe & Co., rue Scribe 7, Paris, France, and 1876 Broadway, New York, N. Y.

- OULD, John Geo. (Associate, 1908), Supt. and Ch. Engr., Polhemus Memorial Clinic, Brooklyn, N. Y.
- OVIATT, David B. (1891), 172 W. 109th St., New York, N. Y.
- OWEN, Ira June (Junior, 1905), Cons. Engr., 855-7 First Natl. Bank Bldg., Chicago, and 110 Maple Ave., Oak Park, Ill.
- OWEN, James (1894), Cons. Engr., 196 Market St., Newark, and *for mail*, Montclair, N. J.
- OWENS, Robert B. (Associate, 1892), Southern Power Co., Trust Bldg., Charlotte, N. C.
- PAINE, Henry E. (Junior, 1906), Mgr., Elec. Dept., Hughson & Merton, Inc., 438 Market St., San Francisco, and *for mail*, 505 Homer Ave., Palo Alto, Cal.
- PAINE, Sidney B. (1908), Mgr., Mill Power Dept., Genl. Elec. Co., 84 State St., Boston, Mass.
- PALMER, Arthur C. H. (1900), Asst. Engr., Queensland Ry., Brisbane, and *for mail*, Palmarosa, Hamilton, Brisbane, Australia.
- PALMER, Arthur E. (Junior, 1909), Ch. Engr., Ferro Mch. & Fdy. Co., and *for mail*, 10 Bender Ave., E., Cleveland, O.
- PALMER, Cortlandt E. (1895), Cons. Min. Engr., 71 Broadway, and 137 E. 19th St., New York, N. Y.
- PALMER, George W., Jr. (1909), Elec. Engr., Old Colony St. Ry Co., Boston & Northern St. Ry Co., and Hyde Park Elec. Lgt. Co., 84 State St., Boston, Mass.
- PALMER, Virgil Maro (Junior, 1905), Ch. Engr., Selden Motor Vehicle Co., Rochester, N. Y.
- PAPE, James Otto (Junior, 1908), Pittsburg Valve & Fittings Co., Barberton, O.
- PARISH, Wm. F., Jr. (1902; 1904), Ch. Engr., Deutsche Vacuum Oil Co., Hamburg, Germany.
- PARISH, Wm. H. (Junior, 1905), Asst. Supt., Natl. Carbon Co., and *for mail*, 1317 W. 114th St., Cleveland, O.
- PARK, Franklin A. (1900), Mgr., Singer Mfg. Co., Ltd., Singer Clydebank, and Northwood, Helensburgh, Scotland.
- PARK, Walter E. (1903), Mgr., Fraser & Chalmers, Ltd., Box 619, Johannesburg, Transvaal, South Africa; also 45 Broadway, New York, N. Y.
- PARK, William R. (1889), Supt., Hancock Inspirator Co., 23 Watson St., Station A, Boston, and 30 Prospect St., Taunton, Mass.
- PARKER, Austin Wilbur (1892; 1901), Mech. Engr., Blake & Knowles Steam Pump Co., East Cambridge, and *for mail*, 694 Main St., Woburn, Mass.
- PARKER, Chas. D. (1886), Mech. Engr., A. Burlingame Co., 22 Cypress St., and *for mail*, 47 Fales St., Worcester, Mass.
- PARKER, Charles H. (1903; 1903), Asst. Supt., Generating Dept., Boston Edison Co., 39 Boylston St., and 260 Clarendon St., Boston, Mass.
- PARKER, John (1909), Mch. Designer, Brown & Sharpe Mfg. Co., and *for mail*, 67 Stanwood St., Providence, R. I.
- PARKER, John C. (1905), Genl. Mgr., Parker Boiler Co., Pa. Bldg., Philadelphia, Pa.
- PARKER, John Castlereagh (1905; 1909), Mech. and Elec. Engr., Rochester Ry. & Lgt. Co., Rochester, N. Y.

- PARKER, John Henry (Associate, 1901), Supt., King Cork & Seal Co., 600 Buren St., and *for mail*, 2215 Ruskin Ave., Baltimore, Md.
- PARKER, Lee Hamilton (1896), Ry. Engr., Stone & Webster Engr. Corp., 147 Milk St., Boston, and 8 Webster St., Brookline, Mass.
- PARKER, Levin S. (1908), Mech. Engr., Atlantic Gulf & Pacific Co., 2407 Park Row Bldg., New York, N. Y.
- PARKER, Walter Edward (1881), Life Member; Agt., Pacific Mills, and *for mail*, 217 Haverhill St., Lawrence, Mass.
- PARKHURST, Frederic A. (Associate, 1904), Organizing Engr., Ferracute Mch. Co., Bridgeton, N. J.
- PARSHALL, Horace Field (1893), Cons. Engr., Salisbury House, London Wall, E. C., London, England.
- PARSON, Chas. H. (Junior, 1906), Secy. and Treas., Parson Mfg. Co., Singer Bldg., New York, N. Y.
- PARSONS, Frederick W. (1889), Supt., Rand Drill Co., and Brookside Park, Tarrytown, and 300 Maple Ave., Elmira, N. Y.
- PARSONS, H. de B. (1885; 1887), Prof. Em., Rensselaer Poly. Inst., Cons. Engr., 22 William St., and 294 Madison Ave., New York, N. Y.
- PARSONS, W. Everett (1899), Cons. Engr., 12 Bridge St., New York, N. Y., and *for mail*, 134 Third Ave., Newark, N. J.
- PARSONS, Willard P. (1884), 51 Wall St., New York, and 307 Lincoln St., Flushing, L. I., N. Y.
- PARSONS, William Claude (Junior, 1906), Blast Furnace Draftsman, Carnegie Steel Co., Homestead Steel Wks., Munhall, and *for mail*, 2433 Woodstock Ave., Braddock, Pa.
- PARSONS, William N. (1901), Ch. Draftsman, Buffalo Bolt Co., and *for mail*, 216 Falconer St., North Tonawanda, N. Y.
- PASCALL, Richard Henry (1894), Pres., Pickering Governor Co., and Box 462, Portland, Conn.
- PATITZ, Gerhardt J. (1900; 1907), Ch. Engr., Peter Schoenhofen Brewing Co., 18th St. and Canalport Ave., Chicago, Ill.
- PATITZ, J. F. Max (1891; 1900), Cons. Mech. Engr., Allis-Chalmers Co., and *for mail*, 473 38th St., Milwaukee, Wis.
- PATTERSON, A. W., Jr. (1897; 1903), Mgr., Invincible Elec. Renovator Sales Co., 408 P. O. Sq. Bldg., Boston, Mass.
- PATTERSON, Peter C. (Junior, 1897), Ch. Engr., Nat. Tube Co., 554 Frick Annex, Pittsburg, and 15th St. and Library Ave., McKeesport, Pa.
- PATTERSON, Wistar E. (Associate, 1909), Production Clerk, Elec. Storage Battery Co., and *for mail*, Union League, Philadelphia, Pa.
- PATTISON, Frank A. (1903), Cons. Engr., Broadway, 5th Ave. and 23d St., New York, N. Y., and Colonia, N. J.
- PATTON, John H. (Junior, 1898), Engr. and M. M., N. Y. Tanning Extract Co., West and Green Sts., and *for mail*, 633 Leonard St., Brooklyn, N. Y.
- PAUL, Charles Edward (1908), Asso. Prof. Mech., Armour Inst. of Tech., and *for mail*, 6355 Ingleside Ave., Chicago, Ill.
- PAUL, John Wallace (1895; 1896), Safe Deposit Bldg., Kittanning, Pa.

- PAYNE, Nathan B. (Junior, 1903), Mgr., Gov. Dept., Manning, Maxwell & Moore, 85 Liberty St., and 53 Washington Sq., New York, N. Y.
- PAYNE, Sheldon F. (1907), M. M., Goodyear's M. R. Shoe Co., and *for mail*, 18 Park Pl., Naugatuck, Conn.
- PAYSON, T. Elliott (Associate, 1906), Supt., Edengraph Mfg. Co., 135 W. Third St., New York, N. Y., and *for mail*, 218 Clerk St., Jersey City, N. J.
- PEABODY, E. H. (1900), Marine Dept., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y.
- PEAR, James J. (1891), Supt., Colts' Pat. Fire Arms Mfg. Co., and *for mail*, 33 Allen Pl., Hartford, Conn.
- PEARSALL, Gilbert H. (Associate, 1908), Genl. Mgr. of Sales, Jos. T. Ryerson & Son, 16th and Rockwell St., Chicago, Ill.
- PEARSON, F. S. (1899), Life Member; Cons. Engr., 25 Broad St., New York, N. Y., and Great Barrington, Mass.
- PEARSON, Walter Ambrose (1907), Asst. Genl. Mgr., Rio de Janeiro Tramway, Light & Power Co., Avenida Central 76, Rio de Janeiro, Brazil, South America.
- PEARSON, Walter B. (1886), Pres., Standard Screw Co., 6 Madison St., and 6222 Sheridan Rd., Chicago, Ill.
- PECK, Chas. B. (1903; 1905), Mgr., B. F. Sturtevant Co., 50 Church St., New York, and 284 Halsey St., Brooklyn, N. Y.
- PECK, Eugene C. (1909), Genl. Supt., Cleveland Twist Drill Co., and 1242 E. 49th St., Cleveland, O.
- PECK, Henry W. (Associate, 1908), Asst. Elec. Engr., Rochester Ry. & Light Co., 34 Clinton Ave., N., Rochester, N. Y.
- PECK, Staunton B. (1890), V. P., Link-Belt Co., Cons. Engr., J. M. Dodge Co., 39th St. and Stewart Ave., and 1018 E. 46th St., Chicago, Ill.
- PECKHAM, Wm. M. (Associate, 1894), Managing Partner, Manning & Peckham Paper Mills, and Collins Ave., Troy, N. Y.
- PEDDLE, John Bailey (1909), Prof. Mch. Design, Rose Poly. Inst., and *for mail*, 2127 N. 10th St., Terre Haute, Ind.
- PEDERSON, Henrik Greger (Junior, 1904), Eng. Designer, Fred. M. Prescott Steam Pump Co., Milwaukee, Wis.
- PEEK, George Meredith (1892; 1900), Pittsboro, N. C.
- PEIRCE, Wm. Henry (1887), V. P. and Genl. Mgr., Baltimore Copper Smelting & Rolling Co., and The Severn Apts., Baltimore, Md.
- PELISSIER, George E. (Associate, 1909), Supt., Goldschmidt Thermit Co., 90 West St., New York, N. Y., and 18 Washington Terrace, East Orange, N. J.
- PENDLETON, Frank E. (Junior, 1902), Ch. Engr., N. Y. Steam Co., 140 Cedar St., New York, N. Y., and Erwin Park Rd., Montclair, N. J.
- PENDRY, W. Allen (1884), Cons. Engr., 65 Farnsworth Ave., Detroit, Mich.
- PENNEY, Edgar (1880), V. P. and Genl. Mgr., Newburgh Ice Mch. & Eng. Co., Newburgh, N. Y.
- PENNEY, Rodney Clapp (1905), Mech. Engr., Dodge Mfg. Co., and *for mail*, 87 Montgomery St., Bangor, Me.

- PENNEY, Rupert L. (Junior, 1906), Test. Engr., Winchester Repeating Arms Co., and *for mail*, 80 Willard St., Westville Sta., New Haven, Conn.
- PENNINGTON, James H. (1902), Mech. Engr., Supt. Cons. and Power, Am. Smelting & Refining Co., Perth Amboy Plant, Maurer, and *for mail*, 1 Lewis St., Perth Amboy, N. J.
- PENNOCK, George Alger (Junior, 1903), Asst. Supt., Service and Maintenance, West. Elec. Co., Hawthorne, and *for mail*, 4012 Jackson Blvd., Chicago, Ill.
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- PERKINS, George Howard (Junior, 1900), Supt. Refineries, Warren Bros. Co., Potter St., East Cambridge, and *for mail*, 5 Irving Terrace, Cambridge, Mass.
- PERKINS, Thomas C. (Junior, 1893), Banker, Conn. Mutual Bldg., Hartford, Conn.
- PERKS, George W. (1908), Supt., Am. Seeding Mch. Co., and 1325 E. High St., Springfield, Ohio.
- PERRIGO, Oscar Eugene (1904), Cons. Mech. Engr. and Pres., Modern Systems Corr. School, 6 Beacon St., Boston, and 151 Lynnfield St., Peabody, Mass.
- PERRY, Ernest Blackman (1907), Mgr., Industrial Wks., and 1515 Fifth St., Bay City, Mich.
- PERRY, Frank B. (1902; 1908), Mill Power Dept., Genl. Elec. Co., 84 State St., Boston, and *for mail*, 53 Stearns St., Newton Centre, Mass.
- PERRY, Samuel B. (Junior, 1895), Ins. Engr., 72 William St., New York, and Hollis, L. I., N. Y.
- PERRY, Wm. A. (1880), 1 Nassau St., and *for mail*, 7 E. 56th St., New York, N. Y.
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- PETTIS, Clifton D. (1905), Hewitt Mfg. Co., 303 Ry. Exch., Chicago, Ill.
- PHARR, Eugene A. (1908), Morgan City, La.
- PHARR, Henry Newton (1907), Sugar Planter and Mfr., Iberia Parish, Olivier, La.
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- PIERCE, Edward L. (1898), V. P., Semet-Solvay Co., V. P., By-Products Coke Corp., Box 1 and 2, Syracuse, N. Y.
- PIERCE, Frederick E. (1909), Engr. Conser., N. J. Zinc Co., 55 Wall St., New York, N. Y., and 938 Broad St., Newark, N. J.
- PIERCE, Richard H. (1894), Cons. Engr., 35 Congress St., Boston, and *for mail*, 462 Walnut St., Newtonville, Mass.
- PIERCE, Walter L. (Associate, 1888), Secy., and Genl. Mgr., Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and Hutchinson Park, Englewood, N. J.
- PIERCY, Edgar (1891), 282 Washington Ave., Elyria, O.
- PIEZ, Charles (1894), Pres., Link Belt Co., 39th & Stewart Ave., and V. P., Dodge Coal Storage Co., Chicago, Ill.
- PILCHER, John A. (1895; 1904), Mech. Engr., Norfolk & Western Ry. Co., and *for mail*, 1025 Henry St., S. W., Roanoke, Va.
- PILLMORE, Frederick (1907), Mech. Engr., 257 Bryant Ave., Syracuse, N. Y.
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- PINGREE, Edwin Daniel (1905), V. P. and Engr., Mfrs'. Mut. Fire Ins. Co., 815 Banigan Bldg., and 99 Hamilton St., Providence, R. I.
- PINKERTON, Andrew (1892), Elec. Engr., Am. Sheet & Tin Plate Co., and *for mail*, P. O. Box 427, Pittsburg, and Church Ave., Ben Avon, Pa.
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- PLATT, John (1889; 1890), Pres., John Platt & Co., 97 Cedar St., New York, N. Y., and Westfield, Union Co., N. J.
- PLATT, Wilber O. (1902), V. P. and Supt., Jos. Reid Gas Eng. Co., Oil City, Pa.
- PLEASANTON, F. Rodney (Junior, 1908), Industrial Engr., Smith & Furbush Mch. Co., Hancock and Somerset Sts., Philadelphia, and *for mail*, 166 W. Hortter St., Germantown, Philadelphia, Pa.
- PLUMMER, Frank J. (1891), 4 Laurel Hill Ave., Norwich, Conn.
- PLUNKETT, Charles T. (1909), V. P. and Secy., Berkshire Cotton Mfg. Co., Adams, Mass.
- POLK, Anderson (Associate, 1904), Asso. with Lowe Bros. Co., of Dayton, O., Bank of Commerce Bldg., Baltimore, Md., and *for mail*, Engrs' Club, New York, N. Y.
- POLK, Wm. Anderson (Associate, 1904), Mgr., Ry. Dept., Patterson-Sargent Co., 8 Jay St., New York, and 25 Westchester Ave., White Plains, N. Y.
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- POMEROY, William D. (1903), Genl. Supt., Goulds Mfg. Co., and *for mail*, 4 Johnston St., Seneca Falls, N. Y.
- POND, Henry O. (1904; 1907), Engr. and Supt. of Piping, Westinghouse, Church, Kerr & Co., 8 Bridge St., New York, N. Y., and Tenafly, N. J.
- POPE, Chas. Edwd. (1897), Mech. Engr., Natl. Malleable Castings Co., Cleveland, O.
- POPE, Harold L. (Junior, 1905), Engr., Matheson Motor Car Co., Wilkes-Barre, Pa.
- PORTER, Chas. T. (1880; Honorary 1890), Manager, 1882-1885; Vice-President, 1886-1888; Montclair, N. J.
- PORTER, Holbrook F. J. (1880; 1884), Cons. Industrial Engr., Metro. Bldg., 1 Madison Ave., New York, N. Y.
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- PORTER, John A. (1908), Genl. Supt., Bibb Mfg. Co., and *for mail*, P. O. Box 413, Macon, Ga.
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- POSSELT, Ejnar (Junior, 1907), Mech. Engr. and Asst. Mgr., St. Louis Portland Cement Wks., and *for mail*, Hotel Berlin, St. Louis, Mo.
- POST, George Adams, Jr. (Junior, 1906), Pres., Post & Rodger Co., 2177 86th St., Brooklyn, N. Y., and 109 Cleveland St., Orange, N. J.
- POTTER, James C. (1907), Pres., Potter & Johnston Mch. Co., Pawtucket, R. I.
- POTTER, Wm. Bancroft (1897), Engr., Ry. and Traction Dept., Genl. Elec. Co., and Lenox Rd., Schenectady, N. Y.
- POTTER, Wm. Bleecker (1895), Mgr. and Ch. Engr., St. Louis Sampling & Testing Wks., 1225-1227 Spruce St., and 4021 Wash. Blvd., St. Louis, Mo.
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- POWEL, Samuel W. (1880), Asst. Mch. Engr., Am. Radiator Co., and *for mail*, 679 Auburn Ave., Buffalo, N. Y.
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- POWELL, John Edgar (1904), Ch. Mech. and Elec. Engr., Office Supervising Arch., Treas. Dept., and *for mail*, Box 25, Station H, Washington, D. C.
- POWELL, Marcus (Associate, 1897), Sales Mgr., Crosby Steam Gage & Valve Co., 16 Dey St., New York, N. Y., and Avon-by-the-Sea, N. J.
- POWELL, William Henry (1908), Elec. Engr.-in-charge, Allis-Chalmers Co., and 173 Farwell Ave., Milwaukee, Wis.
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- POWER, Pomeroy W. (1903), Mech. Engr., Genl. Elec. Co., and *for mail*, 306 South St., Pittsfield, Mass.
- PRATHER, H. B. (1893; 1895; 1898), Cons. Power, Htg. and Ventilating Engr., Rockfeller Bldg., and 2234 E. 80th St., Cleveland, O.
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- PRATT, Francis C. (1892; 1897), care Genl. Elec. Co., Schenectady, N. Y.
- PRELLWITZ, William (1900), Ch. Engr., Ingersoll-Rand Co., Phillipsburg, N. J., and *for mail*, 66 N. 3d St., Easton, Pa.
- PRESCOTT, Fred M. (1901), Manager, 1905-1908; Pres., Fred M. Prescott Steam Pump Co., 60th and Greenfield Aves., and 609 Lake Drive, Milwaukee, Wis.
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- PRICE, Norman I. (Junior, 1902), Australian Genl. Elec. Co., Union Bank Chambers, Pitt St., Sydney, Australia.
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- PUDAN, Herbert Whatmough (Junior, 1899), Cons. Mech. Engr., Moreno 452, Buenos Aires, Argentine Republic, South America.
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- PURDY, Henry T. (1909), Mgr., Purdy Engrg. Co., San Jose, Costa Rica, C. A.
- PURINTON, Arthur James (1893), Mgr. for Receiver, Toledo & Chicago Interurban Ry. Co., Kendallville, Ind.
- PUSEY, Charles W. (1880), Manager, 1892-1895; Life Member; Inspecting Engr., Pusey & Jones Co., Wilmington, and Claymont, Del.
- QUEREAU, C. H. (1892), Supt. Elec. Equip., N. Y. C. & H. R. R. R., Grand Central Sta., New York, N. Y.
- QUICK, Howard Prescott (1894), Asst. Engr., with F. S. Pearson, Cons. Engr., Mexico and South American Tramway Co.'s. Broad Exch. Bldg., 25 Broad St., New York, N. Y.
- QUIGLEY, Jas. Edwin (Junior, 1900), Mgr., Insulation Dept., Armstrong Cork Co., 23d and River, and *for mail*, 466 Rebecca St., Pittsburg, Pa.

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- QUINT, Alanson D. (1891), Mgr., Turret Drill Co., 12 Wells St., and *for mail*, 8 Clinton St., Hartford, Conn.
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- RAMSDEN, John Thomas (1906), Engr., Tabor Mfg. Co., 18th and Hamilton Sts., and *for mail*, 1911 N. 17th St., Philadelphia, Pa.
- RANDALL, Dwight T. (1904), Engr. in charge Fuel Eng. Dept., Arthur D. Little, Inc., 93 Broad St., Boston, and Needham, Mass.
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- RANKIN, William A. (1907), Elec. Engr., Copper Range Consol. Co., Ch. Engr., Copper Range Elec. Co., Painesdale, Mich.
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- RATHBUN, Geo. Jay (1904), V. P. and Engr., Rathbun-Jones Engrg. Co., and 2447 Collingwood Ave., Toledo, O.
- RATTLE, Paul S. (Junior, 1908), Mech. Engr., B. M. Osburn Co., 832 Commer. Natl. Bank Bldg., Chicago, and 459 Oak Park Ave., Oak Park, Ill.
- RAUTENSTRAUCH, Walter (Junior, 1904), Prof. Mech. Engrg., Columbia Univ., New York, N. Y.
- RAWSON, Louis W. (Associate, 1904), Supt., Washburn Shops, Worcester Poly. Inst., and 138 Elm St., Worcester, Mass.
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- RAYMOND, Herbert Emmons (Junior, 1906), Mech. Engr., MacNaughton, Raymond & Lawrence, 606-609 Concord Bldg., and 135 E. 54th St., Portland, Ore.
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- RAYMOND, Ward (1901), Asst. Engr., Ingersoll-Rand Co., Phil-lipsburg, N. J., and *for mail*, 932 Paxinosa Ave., Easton, Pa.
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- REARICK, Chas. Bemis (1892; 1901), V. P. and Genl. Mgr., Atwood-Rearick Co., Hudson Terminal Bldg., 30 Church St., New York, N. Y.
- REBER, Louis E. (1891), Dir. Univ. Extension, Univ. of Wis., and 636 N. Frances St., Madison, Wis.
- REDWOOD, Iltyd I. (1890; 1903), Genl. Wks. Mgr., Borax Cons. Co., Ltd., 16 Eastcheap, London, E. C., and *for mail*, 21 Erith Rd., Belvidere, Kent, England.
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- REED, Fred M. (1906), Mech. Engr., Morse Twist Drill & Mch. Co., New Bedford, Mass.
- REED, Samuel Gordon (Junior, 1896), Pres., German-Am. Bank, Portland, Ore.
- REED, Warren Bettison (1907), Cons. Engr., 1013 Hibernia Bldg., and 426 Walnut St., New Orleans, La.
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- REID, Joseph (1904), Pres., Joseph Reid Gas Eng. Co., Main St., and 21 Orange St., Oil City, Pa.
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- RICHARDSON, Thomas (1907), Ch. Draftsman, W. S. Barstow & Co., 50 Pine St., New York, N. Y., and *for mail*, 9 Concord St., South Norwalk, Conn.
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- RILEY, Robert Sanford (1906), Pres., Am. Ship Windlass Co., Box 1138, and 91 Elmgrove Ave., Providence, R. I.
- RINK, George William (1907), Mech. Engr., M. P. Dept., Central R. R. of N. J., and *for mail*, 104 Claremont Ave., Jersey City, N. J.
- RIPPEY, Samuel Howard (1904; 1905), Cons. Engr., Sellers & Rippey, Stephen Girard Bldg., Philadelphia, and Upsal St., Germantown, Philadelphia, Pa.
- RIPSCH, Charles William (Junior, 1908), Ch. Draftsman, Engrg. Dept., Natl. Cash Register Co., and *for mail*, 113 Hawthorn St., Dayton, O.
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- RITTER, Henry (1900), Supt., The Lunkenheimer Co., and 4208 Glenway Ave., Price Hill, Cincinnati, O.
- RIVETT, Edward (1904), Pres. and Mgr., Rivett Lathe Mfg. Co., 2 Brooks St., Brighton, Boston, Mass.
- RIX, Edward Austin (1896), Pres. and Mgr., Rix Compressed Air & Drill Co., 371 Market St., San Francisco, Cal.
- ROBB, A. G. (1902), Genl. Supt., Robb Engrg. Co., Ltd., and Victoria St., Amherst, N. S., Canada.
- ROBB, D. W. (1888), Pres., Robb Engrg. Co., Ltd., Amherst, N. S., Canada.
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- ROBBINS, Percy Arthur (Associate, 1901), Genl. Mgr., McKinley-Darragh Savage Mines, Cobalt, Ont., Canada.
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- ROBERTS, E. P. (1889), Pres., Roberts & Abbott Co., 1123 Schofield Bldg., Cleveland, and *for mail*, 200 Stanwood Rd. Hill, East Cleveland, O.
- ROBERTS, Edmund W. (1904), Mech. Engr., V. P. and Genl. Mgr., Roberts Motor Co., Sandusky, O..
- ROBERTS, George J. (1888), First V. P., Pub. Service Corp. of N. J., Prudential Bldg., Newark, N. J.
- ROBERTS, Percival, Jr. (1888), V. P., 1893-1895; 717 Arcade Bldg., Philadelphia, and *for mail*, Narberth, Montgomery Co., Pa.
- ROBERTSON, R. A. (1888), Treas., Providence Engrg. Wks., and *for mail*, 50 Stimson Ave., Providence, R. I.
- ROBESON, Anthony Maurice (1895), Cons. Mech. Engr., H. Eckstein & Co., P. O. Box 149, Johannesburg, Transvaal Colony, South Africa.
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- ROBINSON, Arthur L. (1908), Elec. Engr., and M. M., Isthmian Canal Commission, Gorgona, Canal Zone, Central America, and Louisville, Ky.
- ROBINSON, C. Snelling (1900), Second V. P., Youngstown Sheet & Tube Co., and *for mail*, 429 Wick Ave., Youngstown, O.
- ROBINSON, Edward (1891; 1902), Prof. Mech. Engrg., Univ. of Vt., and *for mail*, 25 Colchester Ave., Burlington, Vt.
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- ROBINSON, Frank H. (1903), Treas., Walter H. Foster Co., 1479 Fulton Bldg., 50 Church St., New York, N. Y.
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- ROBINSON, Henry Smith (1896), Cons. Engr., and Pres., Atlantic Wks., 28 State St., Boston, and 97 Main St., Andover, Mass.
- ROBINSON, J. M. (1885), Pres., Crex Carpet Co., 377 Broadway, New York, N. Y., and *for mail*, Englewood, N. J.
- ROBINSON, James R. (1905), Mgr., Scottdale Fdy. & Mch. Co., Scottdale, and *for mail*, Mt. Lebanon, Allegheny Co., Pa.
- ROBINSON, Louis G. (Junior, 1905), corner 4th and Park Ave., Newport, Ky.
- ROBINSON, Stillman W. (1880), Manager, 1881-1884; Prof. Em. in Mech. Engrg., O. State Univ., also Pres., S. W. Robinson & Son Co., 515 W. First Ave., and *for mail*, 1353 Highland St., Columbus, O.
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- ROGERS, Fred. E. (Associate, 1907), Editor, Machinery, and Railway Machinery, 49-55 Lafayette St., New York, N. Y., and *for mail*, 6 Garfield Pl., East Orange, N. J.
- ROGERS, Robert W. (Junior, 1908), Erie R. R., and *for mail*, 216 Walnut St., Meadville, Pa.
- ROGERS, Winfield S. (1888), Pres., Bantam Anti-Friction Co., Bantam, Conn.
- ROHLIG, Georg G. (1909), Genl. Supt., Botany Worsted Mills, and *for mail*, 145 Dayton Ave., Passaic, N. J.
- ROHRER, Albert L. (1896), Elec. Supt., Genl. Elec. Co., and *for mail*, Lenox Rd., Schenectady, N. Y.
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- ROOT, Orlando J. (1898), Secy., Root & Van Dervoort Engrg. Co., and Moline Auto. Co., East Moline, and 616 24th St., Moline, Ill.
- ROPER, D'Arcy Wentworth (Junior, 1901), Secy., Asst. Treas., Great Lakes Constr. Co., Chamber of Commerce Bldg., Buffalo, N. Y., and Market St., Petersburg, Va.
- ROPER, Norman Brownell (1905), Engr. and Salesman, Power & Mining Mch. Co., Cudahy, and 360 Park Pl., Milwaukee, Wis.
- ROSE, E. Ernest (Junior, 1900), Engr., Westinghouse Elec. & Mfg. Co., East Pittsburg, and *for mail*, 2012 Hampton Ave., Swissvale, Pa.
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- ROWE, George F. (1908), Mech. Engr., Bangor, Me.
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- ROYLE, Vernon (1907), Pres. and Treas., John Royle & Sons, and *for mail*, 618 E. 28th St., Paterson, N. J.
- ROYLE, Vernon Elmer (Junior, 1905), Mech. Engr., John Royle & Sons, and *for mail*, 823 E. 28th St., Paterson, N. J.
- ROYS, Lawrence (Junior, 1907), Asst. Engr., Estimating Dept., The Bucyrus Co., and P. O. Box 793, South Milwaukee, also 861 First Ave., Milwaukee, Wis.
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- RUGAN, Henry Fisler (1900), Associate Prof. Mech. Arts, Tulane Univ. of Louisiana, New Orleans, La.
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- RUSSELL, C. M. (Associate, 1886), Massillon, O.

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- RUST, William F. (1904), Ch. Engr., Youngstown Sheet & Tube Co., and The Lincoln Apts., Youngstown, O.
- RUTH, Wilbur M. (1886), Fombell, Beaver Co., Pa.
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- RUTHERFORD, G. S. (1901; 1907), Soda Ash Dept., Solvay Process Co., and 108 Cayuga St., Syracuse, N. Y.
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- SAGUE, Samuel Reston (Junior, 1908), Sales Engr., Power House Equip., Strong, Carlisle & Hammond Co., Cleveland, and *for mail*, 2195 Cummington Rd., East Cleveland, O.
- SAHLIN, Axel (1893), Res. Dir., Julian Kennedy, Sahlin & Co., Ltd., Engrs., 52, Rue du Congres, and 72, Ave. Michel Ange, Brussels, Belgium.
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- SALDANA, Eduardo E. (Associate, 1903), Mech. Engr. and Ch. Engr., Central "Carmen," Vega, Alta, and *for mail*, 89 Allen St., San Juan, also Santurce, Porto Rico.
- SALMON, Frederick W. (1900; 1904), Civ. and Mech. Engr., Murray Iron Wks., and *for mail*, 509 S. Central Ave., Burlington, Ia.
- SALTER, Thomas Fitch (1905; 1907), Ch. Engr., Standard Roller Bearing Co., 50th and Lancaster Ave., Philadelphia, Pa.
- SALTZMAN, Auguste L. (1908), Charge Drafting Dept., Walter Scott & Co., and *for mail*, 605 Madison Ave., Plainfield, N. J.

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- SANCTON, Edward K. (1884), Genl. Mgr., Erith Wks., Fraser & Chalmers, Ltd., and Rivelyn, Erith, Kent, England.
- SANDERS, Newell (1888), Manager, 1902-1905; Prop., Newell Sanders Plow Co., Chattanooga, Tenn.
- SANDERSON, Edwin N. (1903), Sanderson & Porter, 52 William St. and 131 Riverside Drive, New York, N. Y.
- SANDERSON, E. S. (1895; 1903), care Scovill Mfg. Co., and *for mail*, 155 Buckingham St., Waterbury, Conn.
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- SARENGAPANI, T. S. (Junior, 1903), Head Draftsman, P. W. D., Guntur Dist., Madras, India.
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- SARGENT, Frederick (1901), Mech. Engr., Sargent & Lundy, Ry. Exch., Chicago, and Harbor St., Glencoe, Cook Co., Ill.
- SARGENT, Henry Bradford (1898), Sargent & Co., and *for mail*, 247 Church St., New Haven, Conn.
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- SARGENT, William Durham (1896), Pres., The Q. M. S. Co., Pres., Reading Steel Casting Co., 30 Church St., New York, N. Y., and Hutton Park, West Orange, N. J.
- SARGENT, Wm. Prescott (1909), Curtis Publishing Co., and 1902 Green St., Philadelphia, Pa.
- SAR VANT, Wilbur Nason (Junior, 1907), 16 Verona Pl., Brooklyn, N. Y.
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- SCOTT, Henry Francis (1907), M. M., Dennison Mfg. Co., and 71 Union Ave., South Framingham, Mass.
- SCOTT, J. Alvah (1900), Naval Arch. and Marine Engr., 91 Westervelt Pl., Passaic, N. J.
- SCOTT, J. W. (1907), Supt., Arbuckle Bros., Foot Jay St., Brooklyn, N. Y., and Van Nostrand Ave., Englewood, N. J.
- SCOTT, James B. (1896; 1900), Cons. Engr., Maryland Savings Bank Bldg., and 2011 Bolton St., Baltimore, Md.
- SCOTT, Olin (1883), M. E., Prop., Bennington Mch. Wks., Bennington, Vt.
- SCOTT, Seaton M. (1896; 1897), 55 Hawthorne St., Brooklyn, N. Y.
- SCOTT, Walter G. (Junior, 1909), Allis-Chalmers Co., and *for mail*, Fenton, Mich.
- SCRIBNER, Charles W. (1889), Mech. Engr., 39 Cortlandt St., New York, N. Y., and *for mail*, Park Ave., Plainfield, N. J.
- SCRIVENOR, Arthur (1901), Cons. and Contr. Engr., Mut. Bldg., and 1002 West Ave., Richmond, Va.
- SCUDDER, Hewlett, Jr. (Junior, 1899), Pat. Dept., Genl. Elec. Co., Schenectady, N. Y.
- SEABURY, Dwight (1906), Mill Engr. and Arch., Tyler Bldg., 12 East Ave., Pawtucket, and 72 Moore St., Providence, R. I.
- SEAGER, James B. (1908), Genl. Mgr., Seager Eng. Wks., Lansing, Mich.
- SEAMAN, Edwin H. (Junior, 1908), Fire Ins. Insp., Am. Lloyds, 45 Cedar St., New York, and *for mail*, Box 66, Wantagh, Nassau Co., N. Y.

- SEAMAN, Henry B. (1896), Life Member; Ch. Engr., Pub. Service Com., Tribune Bldg., New York, and 140 Clinton St., Brooklyn, N. Y.
- SEARCH, Charles Edwin (1906), Asst. Mgr. of Wks., Allis-Chalmers Co., and *for mail*, 529 Walker St., Milwaukee, Wis.
- SEARING, Hudson R. (1893), 204 W. 132d St., New York, N. Y.
- SEARING, Lewis (1897), V. P. and Genl. Mgr., Denver Engrg. Wks. Co., Denver, Colo.
- SEARLE, Wilbur C. (Junior, 1909), Heald Mch. Co., and *for mail*, 10 Townsend St., Worcester, Mass.
- SEARS, Richard H. (Junior, 1901), Genl. R. E., 22 E. 34th St., New York, N. Y.
- SEARS, Willard T. (1889; 1904), Mech. Engr., Engrg. Bureau, Niles-Bement-Pond Co., 21st and Callowhill Sts., and *for mail*, 629 N. 19th St., Philadelphia, Pa.
- SEAUVER, Edward, Jr. (Junior, 1903), Asst. Condenser Engr., Westinghouse Mch. Co., East Pittsburg, and 6108 Alder St., E. E., Pittsburg, Pa.
- SEAUVER, John Wright (1892), Cons. Engr., Caxton Bldg., and *for mail*, Norfolk Rd., Euclid Hghts., Cleveland, O.
- SEAWELL, Bert W. (Associate, 1907), Ch. Draftsman, Cincinnati Traction Co., and 273 McCormick Pl., Cincinnati, O.
- SEDERHOLM, E. T. (1889), Asst. Ch. Engr., Nordberg Mfg. Co., and 2716 McKinley Blvd., Milwaukee, Wis.
- SEDGWICK, E. H. (Junior, 1899), Planing Dept., Brighton Mills, and *for mail*, 122 Franklin Ave., Passaic, N. J.
- SEDGWICK, Edw. V. (1907), Mgr., Exper. Dept., Galena-Signal Oil Co., Franklin, Pa.
- SEE, Alonzo B. (1909), Owner, A. B. See Elec. Elev. Co., 220 Broadway, New York, and 7 Monroe Pl., Brooklyn, N. Y.
- SEE, James W. (1880), Mech. Engr., Rentschler Bldg., Hamilton, O.
- SELLERS, Coleman, Jr., (1882), Manager, 1890-1893; Pres. and Engr., Wm. Sellers & Co., Inc., 1600 Hamilton St., Philadelphia, Pa.
- SELLEW, Ernest B. (Associate, 1907), Ch. Draftsman, Potter & Johnston Co., and *for mail*, 51 Allen Ave., Pawtucket, R. I.
- SERGEANT, Chas. H. (1895), 525 W. 138th St., New York, N. Y.
- SERRELL, Harold (Associate, 1904), Fulton Bldg., 87 Nassau St., New York, N. Y., and 36 Myrtle Ave., Plainfield, N. J.
- SERRELL, John A. (1895), 200 Fifth Ave., New York, N. Y., and 81 Smythe Ave., Plainfield, N. J.
- SERRELL, Wm. C. (Junior, 1899), Lock Box 680, Syracuse, and *for mail*, P. O. Box 237, Thousand Island Park, N. Y.
- SETHMAN, George H. (Junior, 1899), Mech. and Elec. Engr., 125 E. 11th Ave., Denver, Colo.
- SEWALL, M. W. (1899), Babcock & Wilcox Co., 85 Liberty St., and 600 W. 144th St., New York, N. Y.
- SEWELL, J. G. Clifton (Junior, 1892), United Engrg. & Fdy. Co., Farmers Bank Bldg., Pittsburg, and *for mail*, 15 Hawthorne Ave., Crafton, Pa.

- SEYMOUR, Dudley S. (1905), Supt., Union Spec. Mch. Co., 75 E. Kinzie St., Chicago, and *for mail*, 228 N. Elmwood Ave., Oak Park, Ill.
- SEYMOUR, James Alward (1892), McIntosh, Seymour & Co., and *for mail*, 64 South St., Auburn, N. Y.
- SEYMOUR, Jos. W. (Junior, 1891), Genl. Supt., W. A. Harris Steam Eng. Co., Providence, and *for mail*, 41 Arnold St., Edgewood, R. I.
- SHALLENBERGER, Louis R. (1895; 1902), 239 Maple Ave., Oak Park, Ill.
- SHANKLAND, E. C. (1895), Civil Engr., E. C. & R. M. Shankland, 1106 Rookery Bldg., and 4808 Champlain Ave., Chicago, Ill.
- SHANTZ, O. S. (1900), Shantz Mfg. Co., and *for mail*, 475 Norwood Ave., Buffalo, N. Y.
- SHARPE, Henry D. (Associate, 1901), Treas., Brown & Sharpe Mfg. Co., and *for mail*, 130 Angell St., East Side Sta., Providence, R. I.
- SHARPE, Lucian (Associate, 1902), with Brown & Sharpe Mfg. Co., 130 Angell St., Providence, R. I.
- SHAW, Arthur D. (Associate, 1905), Engr., Link Belt Co., Nicetown, Philadelphia, and *for mail*, 318 Hansberry St., Germantown, Philadelphia, Pa.
- SHAW, Charles H. (Associate, 1906), Western Sales Mgr., Paten & Johnston Mch. Co., and *for mail*, 794 Natl. Ave., Milwaukee, Wis.
- SHAW, Edwin C. (1890; 1892), Genl. Mgr. of Wks., B. F. Goodrich Co., and *for mail*, 120 S. Union St., Akron, O.
- SHAW, James C. (1909), Engr. and Tech. Adviser, Kawasaki Dockyard Co., Ltd., Kobe, Japan.
- SHEDD, Frank Edson (1906), V. P. and Ch. Engr., Lockwood, Greene & Co., Industrial and Hyd. Engrs., 93 Federal St., Boston, Mass.
- SHELDON, F. P. (1890), Steam, Hyd., Elec. and Mill Engr., Industrial Trust Bldg., and 47 Howard Ave., Providence, R. I.
- SHELDON, Samuel B. (Junior, 1900), Genl. Supt., Lackawanna Steel Co., and *for mail*, 42 Linwood Ave., Buffalo, N. Y.
- SHELDON, Thos. C. (1884), Pres., Fitchburg Duck Mills, and *for mail*, 8 School St., Fitchburg, Mass.
- SHELMIRE, W. H., Jr. (1889), Mech. Engr., Supervising Engr., John Lang Paper Co., 24th and Vine Sts., and *for mail*, 69th and Lawnton Ave., Oak Lane, Philadelphia, Pa.
- SHENBERGER, Geo. H. (Junior, 1909), Goulds' Mfg. Co., and *for mail*, 197 Fall St., Seneca Falls, N. Y.
- SHEPARD, Frank E. (1889; 1902), Pres. and Mech. Engr., Denver Engrg. Wks., 30 and Blake Sts., and 924 Wash. Ave., Denver, Colo.
- SHEPARD, Geo. H. (1903), Dean and Prof. Mech. Engrg., College of Applied Science, Syracuse Univ., and *for mail*, 1206 Harrison St., Syracuse, N. Y.
- SHEPARD, Louis A. (1903), Secy., Atha Steel Casting Co., Foot Chapel St., Newark, and *for mail*, 23 Glenwood Ave., East Orange, N. J.

- SHEPERDSON, John Wm. (Associate, 1908), Steam Engr., Cambria Steel Co., and *for mail*, 522 Second Ave., Johnstown, Pa.
- SHEPHERD, Wm. G. (1890; 1904), V. P. and Genl. Mgr., Shepherd Engrg. Co., Williamsport, Pa.
- SHEPPARD, John Leefe, Jr. (Associate, 1906), Supt. of Constr., Am. Rys. Co., Philadelphia, and *for mail*, Scranton Ry. Co., Scranton, Pa.
- SHERBURNE, Kenneth (Junior, 1904), Asst. Engr., Sturtevant Mill Co., Harrison Sq., and *for mail*, 363 Marlborough St., Boston, Mass.
- SHERIDAN, Richard B. (1909), Asst. Genl. Mgr., Brown Hoisting Mch. Co., and 1893 E. 82d St., Cleveland, O.
- SHERMAN, C. K. (Associate, 1902), Western Rep., Under Feed Stoker Co., of Am., 1015-1016 Long Bldg., Kansas City, Mo.
- SHERMAN, Mason H. (1902), Genl. Mgr., By-Products Coke Corp., 1121 Marquette Bldg., and 1052 E. 47th St., Chicago, Ill.
- SHERMAN, W. D. (1907), M. E., Inventor and Supt., 85 to 93 Ninth St., and *for mail*, 521 E. Eighth St., Brooklyn, N. Y.
- SHERRERD, John Maxwell (1905), Genl. Sales Agent, Taylor Iron & Steel Co., High Bridge, N. J., and *for mail*, 340 Spring Garden St., Easton, Pa.
- SHERWOOD, Mather Wm. (1909), Genl. Inspr., Bd. of Aqueduct Commrs., and *for mail*, 1090 St. Nicholas Ave., New York, N. Y.
- SHIEBLER, Marvin (1905-1909), Cons. Engr., 30 Church St., New York, and 278 Berkeley Pl., Brooklyn, N. Y.
- SHIELDS, George Rex (Associate, 1909), Engr., Improved Equip. Co., 60 Wall St., New York, N. Y.
- SHIELDS, William D. (Junior, 1908), Mech. Engr., Oliver Iron & Steel Co., and *for mail*, Edgeworth, Allegheny Co., Pa.
- SHIPLEY, Grant B. (Associate, 1907), Ch. Engr. Mining Dept., Allis-Chalmers Co., Milwaukee, Wis.
- SHIPLEY, Thos. (1891), Genl. Mgr., York Mfg. Co., and cor. Linden and W. York Aves., York, Pa.
- SHIRLEY, Robert (1906), Wks. Mgr., Chapman Valve Mfg. Co., Indian Orchard, and *for mail*, 37 Dresden St., Springfield, Mass.
- SHIRRELL, David (1890), Am. Loco. Co., Schenectady, N. Y., and *for mail*, 848 Park St., Hartford, Conn.
- SHODRON, John Geo. (Junior, 1908), Cons. Engr. and Arch., 220 Burrell St., Milwaukee, Wis.
- SHOUDY, Wm. Allen (Junior, 1903), Asst. Prof., Exper. Engrg., Stevens Inst. of Tech., Hoboken, N. J.
- SHOUVLIN, Patrick J. (1909), Prop., Superior Gas Eng. Co., Springfield, O.
- SHRIVER, Harry T. (Junior, 1893), Prop., T. Shriver & Co., Harrison, N. J., and *for mail*, Larchmont, N. Y.
- SIBLEY, Frederick H. (1908), Prof. Mech. Engrg., Univ. of Ala., University, Ala.
- SIBLEY, Mark M. (1904; Associate, 1904), Secy. and Treas., Sibley Housley Mch. Co., 180 Brush St., and *for mail*, 410 Jefferson Ave., Detroit, Mich.

- SIBSON, Horace E. (Junior, 1904), Mech. Engr., Harrison Safety Boiler Wks., 17th St. and Allegheny Ave., and for mail, 6719 Germantown Rd., Philadelphia, Pa.
- SICKLES, Eugene Chas. (1896; 1904), Supt. Power Plants, B. & O. R. R., 712 Dolphin St., and for mail, 827 N. Arlington Ave., Baltimore, Md.
- SIMONDS, Daniel (1892), Pres., Simonds Mfg. Co., 35 North St., and 132 Pleasant St., Fitchburg, Mass.
- SIMPSON, Colin C. (1907), Asst. Secy. and Genl. Supt. of Distribution, Cons. Gas Co., of N. Y., 4 Irving Pl., New York, N. Y.
- SIMPSON, Geo. R. (1889; 1897), Prin. Examiner in Charge Ry. and Rolling Stock Div., Rm. 304, U. S. Pat. Office, and Lincoln Apts., Washington, D. C.
- SIMPSON, Robert James Osborne (1906), Supt. and Mech. Engr., L. S. Starrett Co., and for mail, 129 Union St., Athol, Mass.
- SIMPSON, William K. (Junior, 1909), Mech. Engr., Nason Mfg. Co., 71 Fulton St., and for mail, 400 Riverside Drive, New York, N. Y.
- SIMS, Gardiner C. (1886), Life Member; Pres., Wm. A. Harris Steam Eng. Co., Providence, R. I.
- SINCLAIR, Angus (1883), Editor and Publisher, 114 Liberty St., New York, N. Y., and for mail, P. O. Box 163, Millburn, N. J.
- SINCLAIR, Geo. M. (1887; 1890), Cons. Engr., 618 Chestnut St., and The Newport, Philadelphia, Pa.
- SINER, J. B. (1891), Factory Ins. Appraiser, 31 Milk St., Rm. 510, Boston, and for mail, 156 Hawthorne St., Malden, Mass.
- SINGER, Sidney Chas. (Junior, 1909), Asst. to Engr. of Distribution, Syracuse Ltg. Co., Syracuse, N. Y.
- SIRICH, J. Henry, Jr. (Associate, 1907), Ch. Draftsman, Power Dept., Bethlehem Steel Co., and for mail, 222 S. High St., Bethlehem, Pa.
- SLADE, Arthur J. (1904), Cons. Engr., Rm. 403, Times Bldg., 42d St. and Broadway, and 172 E. 72d St., New York, N. Y.
- SLADE, Foster C. (Associate, 1907), Willimantic Gas & Elec. Ltg. Co., Willimantic, Conn.
- SLATER, Alpheus B. (1891), 274 Massachusetts Ave., Providence, R. I.
- SLATER, F. R. (Junior, 1894), Cons. Engr., Latey & Slater, Engrs., 100 Broadway, New York, and 14 Arthur St., Yonkers, N. Y.
- SLAUSON, Harold W. (Junior, 1908), Asso. Editor, Recreation, 24 W. 39th St., New York, and for mail, 208 Bay 22d St., Brooklyn, N. Y.
- SLAWSON, Harry H. (Junior, 1904), 345 Eastern Parkway, Brooklyn, N. Y.
- SLEE, Norman S. (Junior, 1909), Engr. and Draftsman, Babcock & Wilcox Co., and for mail, 410 W. Park Ave., Barberton, O.
- SLICHTER, Walter I. (Junior, 1902), Elec. Engr., Genl. Elec. Co., Schenectady, N. Y.
- SLINING, George J. (1909), Genl. Supt., Cleveland-Cliffs Iron Co., Gladstone, Mich.
- SLOCUM, Chester A. (Junior, 1907), Mech. Engr., Long Branch, N. J.

- SLOMER, Wm. Frederick (1909), Engrg. Rep., Fellows Gear Shaper Co., Springfield, Vt.
- SMALL, H. J. (1884), Vice-President, 1893-1895; Genl. Supt. M. P., Southern Pacific Co., Flood Bldg., and *for mail*, 2430 Broadway St., San Francisco, Cal.
- SMART, Richard Addison (1894; 1900; 1906), Wks. Mgr., Oliver, Chilled Plow Wks., and The Oliver, South Bend, Ind.
- SMEAD, William H. (Junior, 1906), Mgr., Htg. Dept., Genl. Fire Extinguisher Co., Warren, O.
- SMITH, Allen C. (1902), Ch. Mech. Designer, Otis Elev. Co., Yonkers, and *for mail*, 697 West End Ave., New York, N. Y.
- SMITH, Alton Lincoln (1904), Prof. Drawing and Mch. Design, Worcester Poly. Inst., and *for mail*, 27 Wash. Ave., Worcester, Mass.
- SMITH, A. Parker (1887), Lawyer, Counsel in Pat. Cases, U. S. Express Bldg., 2 Rector St., New York, N. Y.
- SMITH, Albert W. (1880; 1892), Dir., Sibley College, Cornell Univ., Ithaca, N. Y.
- SMITH, Augustus (1902), Contr., 149 Broadway, New York, N. Y.
- SMITH, Cameron C. (1906), Pres. and Genl. Mgr., Union Steel Castings Co., and 719 N. Negley Ave., Pittsburg, Pa.
- SMITH, Carl D. (Junior, 1909), Asst. Engr., Tech. Branch, U. S. Geolog. Survey, 40th and Butler Sts., Pittsburg, Pa.
- SMITH, Chas. F. (1889), Cons. Elec. and Mech. Engr., 10th floor, 25 City Hall Pl., New York, and 252 Carlton Ave., Brooklyn, N. Y.
- SMITH, Charles P. (Junior, 1888), Mech. Engr., Genl. Elec. Co., and *for mail*, 53 Harwood St., Lynn, Mass.
- SMITH, Edward Jos. (1904), Mech. Engr., Pusey & Jones Co., Wilmington, Del., and *for mail*, 102 S. 13th St., Allentown, Pa.
- SMITH, Edward S. (Junior, 1909), Instr., Univ. of Va., and *for mail*, P. O. Box 172, University, Va.
- SMITH, Ellis Burton (Junior, 1905), Genl. Elec. Co., Harrison, and *for mail*, 100 N. Ninth St., Newark, N. J.
- SMITH, Ephraim (1898), Colonial Steel Co., 84 High St., Boston, and 20 Shirley Ave., Winthrop Beach, Mass.
- SMITH, Ernest L. (1901; 1908), Mgr. of Sales, Grant-Lees Mch. Co., and The Six Hundred, Cleveland, O.
- SMITH, George H. (1881), Beaman & Smith Co., Gordon and Reynolds Aves., and *for mail*, 77 Princeton Ave., Providence, R. I.
- SMITH, Geo., Marshall (Associate, 1904), Ch. Engr., Inter-Ocean Steel Co., and 1653 Thorn St., Chicago Heights, Ill.
- SMITH, Gilbert S. (1893), Engr., 1228-30 Race St., and Oak Lane, Philadelphia, Pa.
- SMITH, Harold B. (1894), Prof. Elec. Engrg., Dir., Elec. Eng. Dept., Worcester Poly. Inst., and 20 Trowbridge Rd., Worcester, Mass.
- SMITH, Harry E. (1894; 1903), Prof. Mech. Engrg., James Millikin Univ., and *for mail*, 1346 W. Wood St., Decatur, Ill.
- SMITH, Harry Ernest (1897), Chem. and Engr. of Tests., L. S. & M. S. Ry., Collinwood, and *for mail*, 80 Knowles St., East Cleveland, O.

- SMITH, Harry Ford (1908), Secy. and Genl. Mgr., Smith Gas Power Co., Lexington, O.
- SMITH, Harry J. (1909), Ch. Engr., Hill Clutch Co., Cleveland, O.
- SMITH, Howard Wells (Junior, 1892), Ch. Engr., Standard Eng. Co., and *for mail*, P. O. Box 126, Ellwood City, Pa.
- SMITH, J. Waldo (1896), Ch. Engr., Board of Water Supply, City of N. Y., 299 Broadway, and 136 Madison Ave., New York, N. Y.
- SMITH, James Wilfred (1909), Supt., Trenton Iron Co., Trenton, N. J.
- SMITH, Jesse M. (1883), Manager, 1891-1894; Vice-President, 1894-1896, 1899-1901; President, 1908-1909; Life Member; Mech. and Elec. Engr. and Expt. in Pat. Causes, Rm. M-14, 220 Broadway, and *for mail*, 120 Riverside Drive, New York, N. Y.
- SMITH, Julian C. (1907), Pres. and Mgr., Vacuum Specialty Co., First Avenue and 36th St., New York, and Douglaston, L. I., N. Y.
- SMITH, L. P. C. (Junior, 1906), Draftsman, Gas and Mill Eng. Dept., Allis-Chalmers Co., and *for mail*, 455 69th Ave., West Allis, Wis.
- SMITH, Mark Elmer (Junior, 1908), Mgr. and Owner, Irwin's Garage, 513-515 French St., and *for mail*, 246 W. 21st St., Erie, Pa.
- SMITH, Oberlin (1881), President, 1889-1890; Manager, 1883-1886; Pres., Ferracute Mach. Co., and Lochwold, Bridgeton, N. J.
- SMITH, Orin Gould (Junior, 1899), Mgr., Platt Iron Wks. Co., 1224 Chem. Bldg., and Usma Hotel, St. Louis, Mo.
- SMITH, Otto T. R. (1906), Asst. Engr., Engrg. Dept., Otis Elev. Co., 17 Battery Pl., and *for mail*, 880 St. Nicholas Ave., New York, N. Y.
- SMITH, Persifor Frazer, Jr. (1904), M. M., Pa. R. R. Shops, Columbus, O.
- SMITH, Robert W. (1890), Vice-President, Hilles & Jones Co., and *for mail*, 1105 Franklin St., Wilmington, Del.
- SMITH, Roy B. (Junior, 1905), Foreman M. P. and Equip., C. L. and N. Ry., and *for mail*, 2213 Adams Ave., Norwood, Cincinnati, O.
- SMITH, Roy Harman (Junior, 1906), Supt., Nat. Screw & Tack Co., Cleveland, O.
- SMITH, S. H. (Associate, 1907), Supt., North Melbourne Elec. Tramways & Ltg. Co., Ltd., Mt. Alexander Rd., Ascot Vale, and Clydehall, Harding and East Sts., Melbourne, Australia.
- SMITH, Sidney L. (1880), Mech. Engr., 90 Elm Hill Ave., Roxbury, Boston, Mass.
- SMITH, T. Carpenter (1886), Mech. Engr., 220 S. Broad St., Philadelphia, Pa.
- SMITH, William E. (Junior, 1908), Am. Loco. Co., Scranton, Pa.
- SMITH, Wm. Edward (1900), Pres., Swedish Portland Cement Mfg. Co., P. O. Box 263, and *for mail*, Strelna, St. Petersburg, Russia.
- SMITH, Wm. W. (1909), Mech. Engr., Apartado 1031, Mexico, D. F., Mexico.
- SNEDDON, Jas. P. (1891), Genl. Supt., Babcock & Wilcox Co., Bayonne, and 532 N. Broad St., Elizabeth, N. J.
- SNODGRASS, John McB. (Junior, 1904), Asst. Prof. Mech. Engrg., Univ. of Ill., Urbana, and 306 Davidson St., Champaign, Ill.

- SNOW, Sylvester M. (1890), Snow & Humphreys, Rm. 62, 85 Water St., Boston, Mass., and *for mail*, 257 Gano St., East Side Sta., Providence, R. I.
- SNOW, Walter B. (1898), Pub. Engr., 170 Summer St., Boston, and 29 Russell Ave., Watertown, Mass.
- SNOW, Wm. Gage (1905), N. E. Mgr., Warren Webster & Co. of Camden, N. J., Penn Mut. Bldg., Boston, and 11 Devon Rd., Newton Centre, Mass.
- SNOW, Wm. W. (1889), Hillburn, N. Y.
- SNYDER, Frederick T. (1900), Pres., Metallurgic Engrg. Co., 737 Monadnock Bldg., Chicago, and Oak Park, Ill.
- SNYDER, Leo H. (Junior, 1907), In charge Graphite Dept., Joseph Dixon Crucible Co., and 308 Montgomery St., Jersey City, N. J.
- SNYDER, Robert M. (Junior, 1890), 502 Jeanette St., Wilksburg, Pa.
- SNYDER, William E. (1900), Mech. Engr., Am. Steel & Wire Co., Frick Bldg., Pittsburg, and *for mail*, 3624 California Ave., Allegheny, Pa.
- SOPER, Ellis (1905; Associate, 1908), Pres., The Soper Co., 1110-11 Ford Bldg., and 54 Blaine Ave., Detroit, Mich.
- SORGE, Adolph (1886), Mech. Engr., 1537-38 Monadnock Bldg., Chicago, Ill., and St. Joseph, Mich.
- SORNBERGER, Edwin C. (1890), Sales Engr., Allis-Chalmers Co., Ellicott Sq., and *for mail*, 208 Lancaster Ave., Buffalo, N. Y.
- SORZANO, Julio Frederico (1884), Life Member; Cons. Civ. and Mech. Engr., 52 Broadway, New York, and *for mail*, 228 Garfield Pl., Brooklyn, N. Y.
- SOUTHER, Henry (1894), Pres., Henry Souther Engrg. Corp., 440 Capitol Ave., Hartford, Conn.
- SOUTHWORTH, Martin O. (1907), Elec. Engr., Fairbanks, Morse & Co., 481 Wabash Ave., and *for mail*, Hotel Windermere, Chicago, Ill.
- SOWDEN, Parkin T. (Junior, 1908), Supt., Standard Silver Co., and 80 College St., Toronto, Ont., Canada.
- SPACKMAN, Henry S. (1899), Pres., Henry S. Spackman Engrg. Co., 42 N. 16th St., Philadelphia, and 105 Ardmore Ave., Ardmore, Mont. Co., Pa.
- SPALDING, Chester M. (1894), Genl. Elec. Co., and *for mail*, 6 Catherine St., Schenectady, N. Y.
- SPANGLER, H. W. (1888), Prof. Mech. Engrg., Univ. of Pa., Philadelphia, Pa.
- SPARROW, Ernest P. (1896), B. F. Sturtevant Co., Hyde Park, and *for mail*, 84 Greenwood St., Grove Hall, Dorchester, Mass.
- SPARROW, John Porterfield (1898), Ch. Engr., N. Y. Edison Co., 55 Duane St., New York, and 279 E. 16th St., Brooklyn, N. Y.
- SPEED, Wm. S. (1900; 1904), V. P. and Mgr., Louisville Cement Co., and *for mail*, 523 Park Ave., Louisville, Ky.
- SPEER, Chas. Henry (Associate, 1907), Asst. Engr., Algoma Steel Co., Ltd., Sault Ste. Marie, Ont., Canada.
- SPENCER, Frank C. (Associate, 1908), Mech. and Constr. Engr., 7135 Eggleston Ave., Chicago, Ill.

- SPENCER, J. Beaumont (Junior, 1907), Mech. Engr., Griscom-Spencer Co., 90 West St., and *for mail*, 929 West End Ave., New York, N. Y.
- SPENCER, William J. (Junior, 1906), Genl. Sales Mgr., Wyndmoor, Chestnut Hill, Philadelphia, Pa.
- SPIES, Albert (1884), Pres., Fdy. News Co., Hudson Terminal, 50 Church St., New York, N. Y., and 40 Glenwood Ave., Jersey City, N. J.
- SPILLMAN, Edwd. Orton (Junior, 1898), Mech. Engr., North Tonawanda, N. Y.
- SPILSBURY, Edmund Gybbon (1890), Cons. Engr., 45 Broadway, New York, and 23 Park Pl., New Rochelle, N. Y.
- SPIRO, Charles (1908), Pres. and Genl. Mgr., Columbia Typewriter Mfg. Co., 39 W. 116th St., and *for mail*, 10 W. 121st St., New York, N. Y.
- SPOERRI, Henry (1907), Mech. Cons. Engr., Spoerri & Co., Bergstrasse 76, Zurich, Switzerland.
- SPONSEL, C. W. (1902), Mfg. Supt., Gen. Elec. Co., Pittsfield, Mass., and 22 Huntington St., Hartford, Conn.
- SPONSLER, Charles Fred'k (Junior, 1904), Ch. Engr., Bureau of Standards, Dept. Commerce and Labor, and *for mail*, 1644 Park Rd., Washington, D. C.
- SPOTTON, Arthur Knowlson (Junior, 1906), Ch. Engr., Goldie & McCulloch Co., Ltd., Galt, Ont., Canada.
- SPRADO, Carl G. (1903), Engr. and Ch. Draftsman, Gas and Mill Eng. Dept., Allis-Chalmers Co., and *for mail*, 752 29th St., Milwaukee, Wis.
- SPRADO, Ralph (1900), Ch. Engr., Dow Pumping Eng. Co., San Francisco, and *for mail*, 1604 Antonio Ave., Alameda, Cal.
- SPRINGER, John J. (Junior, 1903), Sales Engr., Crane Hawley Co., Court & Sycamore Sts., Cincinnati, and *for mail*, 4815 Marion St., East Norwood, O.
- SPRUANCE, Wm. C., Jr. (1906), du Pont Bldg., Wilmington, Del.
- SPURLING, O. C. (1907), Plant Engr., Western Elec. Co., Hawthorne, Ill.
- STACKS, H. Roy (1909), Supt., Geo. V. Cresson Co., 18th and Allegheny Ave., and 3629 N. 21st St., Philadelphia, Pa.
- STAFFORD, Benjamin E. D. (Junior, 1895), Genl. Mgr., Flannery Bolt Co., 328 Frick Bldg., and Akron Apts., Craig and Center Ave., Pittsburg, Pa.
- STANBROUGH, Duncan G. (Associate, 1907), Dept. Yards and Docks, Navy Yard, Norfolk, Va.
- STANDLEY, Albert H. (Junior, 1899), V. P. and Genl. Supt., Downington Mfg. Co., and *for mail*, Box 3, also 336 E. Lancaster Ave., East Downington, Pa.
- STANGLAND, B. F. (1889; 1892), Mech. Engr., 45 Fulton St., and 157 W. 123d St., New York, N. Y.
- STANLEY, Alix W. (1893; 1903), V. P., Stanley Rule & Level Co., New Britain, Conn.
- STANTON, Alden D. (Junior, 1909), Ch. Draftsman, Dept. Bldgs. and Grounds, Columbia Univ., New York, and *for mail*, 378 Greene Ave., Brooklyn, N. Y.

- STANTON, Francis A. O'C. (Junior, 1909), City Engr., 1104 Bloomfield St., Hoboken, N. J., and 50 Church St., New York, N. Y.
- STANTON, Frank McMillan (1892), Life Member; Min. Engr., Lincoln Trust Bldg., 208 Fifth Ave., New York, N. Y., and Atlantic Mine, Mich.
- STANWOOD, J. B. (1889), Manager, 1897-1900; Engr. and V. P., Houston, Stanwood & Gamble Co., and *for mail*, 623 Oak St., Cincinnati, O.
- STAPLES, H. A. (Junior, 1903), Foreman Tube Mill, Bridgeport Brass Co., and *for mail*, 1281 Noble Ave., Bridgeport, Conn.
- STARBUCK, George F. (Junior, 1901), Draftsman, Mech. Dept., N. Y., N. H. & H. R. R., and *for mail*, 70 Whalley Ave., New Haven, Conn.
- STARKWEATHER, Wm. G. (1897), N. E. Mgr., C. H. Wheeler Mfg. Co., A. L. Ide & Sons, 53 State St., Boston, and 17 Gibson Rd., Newtonville, Mass.
- STARR, John Edwin (1905), Pres., Starr Engrg. Co., 50 Church St., and 12 Fifth Ave., New York, N. Y.
- STAUDE, Edwin G. (Junior, 1908), Pres. and Managing Dir., E. G. Staude Mfg. Co., 526 S. Fifth St., and *for mail*, 1839 Kenwood Parkway, Minneapolis, Minn.
- STEARNS, Albert (1880), Supt., Church & Dwight, 1416 Willis Ave., and 329 James St., and *for mail*, Box 74, Syracuse, N. Y.
- STEARNS, Thomas B. (1883), Mining and Mech. Engr., 1720 California St., and 1218 Washington Ave., Denver, Colo.
- STEBBINS, Albert C. (1904), V. P., Niles-Bement-Pond Co., and 835 W. 7th St., Plainfield, N. J.
- STEBBINS, Theodore (1903), Herrick & Stebbins, 14-16 Church St., New York, N. Y.
- STEELE, Ben Wadley (Junior, 1907), Second V. P., and Asst. Mgr., Atlanta & St. Andrews Bay Ry., Dothan, Ala.
- STEELE, Walter D. (1892; 1901), V. P., Benjamin Elec. Mfg. Co., 507 W. Jackson Blvd., Chicago, Ill.
- STEEN, Arthur B. (1903), Mgr., Natl. Transit Co. Shops, Oil City, Pa.
- STEENSTRUP, Peter Severin (1906), Secy., Hyatt Roller Bearing Co., 427 Middlesex St., Harrison, N. J., and *for mail*, 650 Charlevoix Ave., Detroit, Mich.
- STEHLIN, Joseph (Associate, 1905), Pres., Stehlin Miller Henes Co., Terminal Bldg., 41st St. and Park Ave., and *for mail*, Pres., Farmers' Feed Co., 532 E. 76th St., also The Van Cortlandt, 96th St. and Park Ave., New York, N. Y.
- STEINMETZ, Charles P. (1907), Cons. Engr., Genl. Elec. Co., and Prof. Elec. Engrg., Union Univ., and *for mail*, Wendall Ave., Schenectady, N. Y.
- STEPHENSON, Hermann (Junior, 1909), Instr. Exper. Engrg., Cornell Univ., and 117 E. Buffalo St., Ithaca, N. Y.
- STETSON, George R. (1880), Vice-President, 1898-1900; Pres. and Genl. Mgr., New Bedford Gas & Edison Light Co., 125 Middle St., and 7 Anthony St., New Bedford, Mass.
- STEVENS, Alfred H. (1898; 1903), Engr. and Contr., 149 Broadway, New York, and *for mail*, 806 Wash. Ave., Brooklyn, N. Y.

- STEVENS, E. A. (Associate, 1889), Life Member; Pres., Hoboken Land & Improvement Co., 1 Newark St., and Castle Point, Hoboken, N. J.
- STEVENS, Harold L. (Associate, 1904), Dist. Sales Agt., Lacka. Steel Co., 206 Fidelity Bldg., and 499 Ashland Ave., Buffalo, N. Y.
- STEVENS, Jesse F. (Associate, 1904), 14 Prospect Ave., Wollaston, Mass.
- STEVENS, John A. (1902), Cons. Engr., 107 Merrimack St., and 78 Hanks St., Lowell, Mass.
- STEVENS, R. C. (1890; 1906), Ch. Engr., Skinner Eng. Co., and *for mail*, 454 W. 11th St., Erie, Pa.
- STEVENS, Robt. H. (Junior, 1903), Stevens Bros., Engrs. and Contrs., 149 Broadway, New York, N. Y., and 1110 St. Johns Pl., Brooklyn, N. Y.
- STEVENS, Wm. N. (Junior, 1886), V. P., Conveying Mchy. Co., 120 Liberty St., New York, and The Van Anden, 61 Pierrepont St., Brooklyn, N. Y.
- STEVENSON, A. A. (1888), V. P., Standard Steel Wks., 1103 Harrison Bldg., Philadelphia, and Ardmore, Pa.
- STEVENSON, Louis T. (Junior, 1907), Engr., Mountain Mill Paper Co., Lee, and *for mail*, 28 Reed St., Pittsfield, Mass.
- STEVENSON, T. Kennedy (Junior, 1908), Duplex Metals Co., 149 Broadway, and Princeton Club, Gramercy Park, New York, N. Y.
- STEVENSON, William Alston (1900), Mgr., Keystone Drop Forge Wks., Chester, Pa.
- STEWART, Chas. E. (Junior, 1908), Asst. Prof. Mech. Arts, Tufts College, Tufts College P. O., Mass.
- STEWART, Geo. W. (Junior, 1905), Mchy. Salesman, Baker & Hamilton, 136 N. Los Angeles St., and *for mail*, 204 N. St. Louis St., Los Angeles, Cal.
- STEWART, Reid T. (1894), Acting Head, Engrg. Dept., and Prof. Mech. Engrg., Univ. of Pittsburg, and 1524 Shady Ave., Pittsburg, Pa.
- STIEFEL, Ralph C. (1897), Mech. Engr., Ellwood City, Lawrence Co., Pa.
- STILL, Frederick R. (1909), Ch. Engr. and Secy., Am. Blower Co., and 1400 Russell St., Detroit, Mich.
- STILLMAN, Austin Frank (Junior, 1907), Watson-Stillman Co., Terminal Bldg., 50 Church St., New York, N. Y., and Hampton Hall, Cranford, N. J.
- STILLMAN, Edwin A. (Junior, 1908), Watson-Stillman Co., 50 Church St., New York, N. Y.
- STILLMAN, F. H. (1887), Pres., Watson-Stillman Co., and Bridgeport Motor Co., Terminal Bldg., 50 Church St., New York, and 105 Rodney St., Brooklyn, N. Y.
- STILLMAN, Howard (1895), Mech. Engr. and Engr. of Tests, Southern Pacific Co., 1180 Flood Bldg., San Francisco, and S. W. cor. Piedmont Ave and Haste St., Berkeley, Cal.
- STIMSON, Oscar M. (1906), 5006 Michigan Ave., Chicago, Ill.
- STIRLING, Allan (1880), Manager, 1881-1884; Vice-President, 1885-1887; Life Member; Treas., The Maxim Co., 130 Fulton St., New York, N. Y.

- STODDARD, Geo. Howland (1897), Treas. and Mgr., Quincy Market Cold Storage & Warehouse Co., 133 Commercial St., and 197 Beacon St., Boston, Mass.
- STOKES, Samuel E. (1894), 5419 Wayne Ave., Germantown, Philadelphia, Pa.
- STONE, Charles Waterman (1907), Asst. Engr., Ltg. Dept., Genl. Elec. Co., Schenectady, N. Y.
- STONE, Elmer B. (Junior, 1906), Genl. Supt., Corbin Cabinet Lock Co., and 3 Trinity St., New Britain, Conn.
- STONE, J. Wheaton (1898), Secy. and Mgr., Eastern Mchy. Co., and 27 Trumbull St., New Haven, Conn.
- STONE, Mason A., Jr. (Junior, 1907), Engrg. Dept., Tide Water Oil Co., Bayonne, N. J., and *for mail*, 20 E. 35th St., New York, N. Y.
- STONE, Thos. W. (Junior, 1903), Engr., Western Gas Constr. Co., and 919 Columbia Ave., Fort Wayne, Ind.
- STONE, Wilbur M. (1886; 1891), Mech. Engr. and Pat. Expt., Rm. 1025, Park Row Bldg., New York, and 1240 Flatbush Ave., Brooklyn, N. Y.
- STOTT, Henry G. (1902), Mgr. 1907-1910; Supt. M. P., I. R. T. Co., 600 W. 59th St., New York, and Rochelle Heights, New Rochelle, N. Y.
- STOUGHTON, Edwin R. (Associate, 1907), Baird & West, 149 Jefferson Ave., Detroit, Mich.
- STOUT, R. Paul (1906), Engr. Exper. Ordnance, Bethlehem Steel Co., South Bethlehem, and *for mail*, 404 Market St., Bethlehem, Pa.
- STOVEL, Russell W. (1902; 1907), Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, N. Y., and 48 Watchung Ave., Montclair, N. J.
- STRANAHAN, O. A. (1900), Engrs'. Club, 32 W. 40th St., New York, N. Y.
- STRATTON, E. Platt (1883), Engr., and Naval Arch., Cons. Engr., Surveyor to N. Y. Board of Underwriters, 66 Beaver St., New York, and 125 S. 13th St., College Point, Borough of Queens, N. Y.
- STRATTON, H. F. (Junior, 1904), Sales Mgr., Elec. Controller & Mfg. Co., and *for mail*, Suite 7, 1523 Eastern Blvd., Cleveland, O.
- STRATTON, James Hughes (1906), Engr. of Constr., Wellman-Seaver-Morgan Co., and 1942 E. 101st St., Cleveland, O.
- STRAW, C. A. (1896; 1904), Mech. Supt., Lehigh Coal & Navigation Co., Lansford, Pa.
- STREET, Clement F. (1893), Engr., Westinghouse Air Brake Co., Wilmerding, Pa.
- STREET, Edgar L. (1903), Cons. Engr., 43 Cedar St., New York, N. Y., and Princeton, N. J.
- STREETER, Lafayette P. (1902; Associate, 1903), Air Brake Insp., Southern Pacific Co., Los Angeles, and *for mail*, P. O. Box 1152, Pasadena, Cal.
- STREETER, Robert Leroy (Associate, 1907), Instr. Mch. Design, Buffalo Tech. H. S., and *for mail*, 879 Niagara St., Buffalo, N. Y.

- STRING, Joseph Starr (Junior, 1907), Asst. Engr., Mosher Water Tube Boiler Co., 30 Church St., New York, N. Y., and *for mail*, 130 Arlington Ave., East Orange, N. J.
- STRINGHAM, Joseph S. (1903), Constr. Engr., Solvay Process Co., and Pasadena Apts., Detroit, Mich.
- STROBEL, Victor O. (1892), Genl. Mgr., Crane Dept., Niles-Bement-Pond Co., Mifflin and Meadow Sts., and 1537 Pine St., Philadelphia, Pa.
- STROM, Carl A. (1905), Mgr., Rogers Wks., Am. Loco. Co., Paterson, N. J.
- STROTHMAN, Louis E. (1909), Asst. Mgr., Pumping Eng. and Hyd. Turbine Dept., Allis-Chalmers Co., Milwaukee, Wis.
- STROUD, Edwin G. (Junior, 1901), Mgr., Cleveland Engrg. Agency, Pres. E. G. Stroud Co., Rose Bldg., Cleveland, and 1502 Orchard Grove Ave., Lakewood, O.
- STROUSE, Sidney B. (Junior, 1909), Engr., Pa. Engrg. Co., and *for mail*, 1326 N. Marshall St., Philadelphia, Pa.
- STRUCKMANN, Holger (1909), Ch. Engr. and Genl. Mgr., Union Sand & Material Co., and 6330 Washington Blvd., St. Louis, Mo.
- STUCKI, Arnold (1907), Engr., Farmers Bank Bldg., and *for mail*, 1615 Falk Ave., N. S., Pittsburg, Pa.
- STUMPF, Johann (1896), Prof. Mech. Engrg., Tech. Hochschule, Charlottenburg, and Kûrfürstendamm, 33, Berlin, W., Germany.
- STUNTZ, J. E. (Junior, 1903), Ch. Engr., Cape Cruz Co., Ensenada De Mora, Cuba.
- STURGESS, John (1901), Western Rep., Platt Iron Wks. Co., and 17 Rockwood Ave., Dayton, O.
- STURGIS, Wm. Bayard (Junior, 1909), Asst. Engr., Dover White Marble Co., Wingdale, Dutchess Co., N. Y.
- STUT, John C. H. (1892), Cons. Mech. Engr., 417 Montgomery St., San Francisco, and 865 Adeline St., Oakland, Cal.
- STUTZ, C. C. (1900), Cons. Engr., P. O. Box 721, Plainfield, N. J.
- SUCK, Adolph (1905), Arch. and Engr., 94 Arlington St., Hyde Park, Mass.
- SULLIVAN, Howard W. (Junior, 1908), Mgr., Union Drydock Co., Weehawken, N. J.
- SULZER, Jacob Carl (1891), Sulzer Bros., Winterthur, Switzerland.
- SUMMEY, David Long (1907), Mech. Engr., Chase Rolling Mill Co., and *for mail*, 3 Irving St., Waterbury, Conn.
- SUMNER, Harry W. (Junior, 1900), Rainier Fdy. Co., P. O. Box 56, and Lincoln Hotel, Seattle, Wash.
- SUNSTROM, Karl J. (1884), Cons. Engr., Odengaten 92, Stockholm, Sweden.
- SUPPES, Max M. (1890), Natl. Tube Co., Lorain, O.
- SUPLEE, Henry Harrison (1888), Manager, 1897-1900; Pres., Cassier Magazine Co., and Editor, Cassier's Magazine, 12 W. 31st St., and 203 W. 81st St., New York, N. Y.
- SUTER, Geo. A. (1883; 1893), 112 Wooster St., New York, and *for mail*, New Rochelle, N. Y.

- SUTTON, Frank (1907), Cons. Engr., 91-93 Wall St., New York, and Babylon, L. I., N. Y.
- SUTHERLAND, James I. (Junior, 1909), Estimator, Standard Steel Car Co., and *for mail*, 229 Cecelia St., Butler, Pa.
- SVENSON, John A. F. (1888), Mech. Engr., Bessemer Bldg., Pittsburgh, Pa.
- SVENSSON, Johan Alfred (1909), Ingle Mch. Co., 299 St. Paul St., and 120 Chestnut St., Rochester, N. Y.
- SWAIN, George F. (1883), Prof. Civ. Engrg., Graduate Sch. Applied Science, Harvard Univ., Pierce Hall, Oxford St., Cambridge, Mass.
- SWAN, John Joseph (1899; 1909), Secy., W. P. Pressinger Co., 1 W. 34th St., New York, N. Y., and Plainfield, N. J.
- SWANBERG, F. L. (Junior, 1902), Secy., D. T. Williams Valve Co., and 24 Calvin St., Cincinnati, O.
- SWARTS, Guy Taylor (Junior, 1909), Steam Engrg. Dept., Cambria Steel Co., and *for mail*, 214 Mifflin St., Johnstown, Pa.
- SWASEY, Ambrose (1880), Vice-President, 1900-1902; President, 1904; V. P., Warner & Swasey Co., and *for mail*, 7808 Euclid Ave., Cleveland, O.
- SWEENEY, John M. (1885), Mech. Engr., 1306 Monadnock Bldg., and 5660 Madison Ave., Chicago, Ill.
- SWEET, Charles E. (1907), Supt., Steam Turbine Constr., Westinghouse Mch. Co., East Pittsburgh, and 1331 Singer Pl., Wilkesburg, Pa.
- SWEET, Franklin (Junior, 1903), Smith & Watson Iron Wks, and *for mail*, 603 E. Main St., Portland, Ore.
- SWEET, John E. (1880; Honorary, 1904), President, 1883-1884; Manager, 1880-1883; Pres., Straight Line Eng. Co., and 114 Merriam Ave., Syracuse, N. Y.
- SWENSON, Bernard Victor (1903), Secy. and Treas., Am. Street & Internatl. Ry. Asso., 29 W. 39th St., New York, N. Y.
- SYMINGTON, E. Harrison (Associate, 1903), Wks. Sales Mgr., T. H. Symington Co., Rochester, N. Y.
- SYMONDS, George P. (1908), Chief Engrg. Dept., Alberger Condenser Co., 95 Liberty St., New York, N. Y.
- SYMONDS, Nathaniel Gardiner (Junior, 1905), Sales Engr., Westinghouse Mch. Co., 404 Traction Terminal Bldg., and *for mail*, 27 W. 27th St., Indianapolis, Ind.
- SYMONS, Wilson E. (1899), Supt. M. P. and Mchy., Chicago Great Western Ry., Met. Opera House Bldg., and Hotel Ryan, St. Paul, Minn.
- SZE, S. C. Thomas (Junior, 1905), Imperial Rys. of North China, Tongshau, China.
- TABER, George H. (1894), Genl. Mgr., Gulf Refining Co., Frick Bldg. Annex, Pittsburgh, and 136 West Swissvale Ave., Edgewood Park, Pittsburgh, Pa.
- TABOR, Leroy (1909), Supt., Tabor Mfg. Co., 18th and Hamilton Sts., and 1223 N. 42d St., Philadelphia, Pa.
- TADDIKEN, J. F., Jr. (Junior, 1907), Am. Beet Sugar Co., Rocky Ford, Colo.
- TAFT, Theo. H. (Junior, 1903), Instr. Mech. Engrg., Mass. Inst. of Tech., Boston, and *for mail*, 1 Avon Pl., Cambridge, B, Mass.

- TAGGE, Arthur C. (1901), Genl. Supt., Canada Cement Co., Ltd., Imperial Bank Bldg., Montreal, and 440 Strathcona Ave., Westmount, P. Q., Canada.
- TAIT, Godfrey M. S. (1906; 1907), Pres., Tait Producer Co., 2 Rector St., New York, N. Y., and *for mail*, 39 Upper Mountain Ave., Montclair, N. J.
- TAIT, Roderick H. (1904), Pres., Tait Nordmeyer Engrg. Co., Wright Bldg., and 1368 Granville Pl., St. Louis, Mo.
- TAKEO, Toshisuke (1908), Cons. Engr., Yoshinotani Coal Mining Co., Ltd., Genl. Mgr., Karatsu Iron Wks., Karatsu, Hizen, Japan.
- TALCOTT, Robt. Barnard (1907), Asst. Ch. Mech. and Elec. Engr., Office Supv. Arch., Treas. Dept., and *for mail*, 3038 Dumbarton Ave., N. W., Washington, D. C.
- TALLMAN, Frank G. (1881), Manager, 1905-1908; Dir. of Purchases, E. I. du Pont de Nemours Powder Co., du Pont Bldg., and 1102 Broome St., Wilmington, Del.
- TANDY, Harry (1903), Supt., Canadian Loco. Wks., Kingston, Ont., Canada.
- TATE, John M., Jr., (Associate, 1907), Pres., Tate, Jones & Co., 805 Empire Bldg., Pittsburg, Pa.
- TATNALL, James Edward (1883), Haverford, Pa.
- TAYLOR, Alexander (1907), Mgr. of Wks., Westinghouse Elec. & Mfg. Co., East Pittsburg, Pa.
- TAYLOR, Cecil Hamelin (Associate, 1908), Designing Engr., Chalmers-Detroit Motor Co., and Pasadena, Detroit, Mich.
- TAYLOR, Clarence L. (1904), Ch. Engr., Morgan Engrg. Co., and *for mail*, 653 S. Union Ave., Alliance, O.
- TAYLOR, Frank H. (1908), 995 Madison Ave., New York, N. Y.
- TAYLOR, Frederick W. (1886), Vice-President, 1904-1905; President, 1905-1906; Cons. Engr., Highland Sta., Chestnut Hill, Philadelphia, Pa.
- TAYLOR, George W. K. (1907), 104-106 John St., New York, N. Y.
- TAYLOR, John T. (1891), Supt., 156 Fifth Ave., New York, N. Y.
- TAYLOR, John W. (Junior, 1909), Asst. Supt., Russell Eng. Co., and *for mail*, 88 Third St., Massillon, O.
- TAYLOR, Percy B. (1909), Cons. Engr., 800 Broad St., Newark, N. J.
- TAYLOR, Stevenson (1886), Vice-President, 1899-1901; V. P., Quintard Iron Wks. Co., 742 E. 12th St., New York, N. Y.
- TAYLOR, Warren H. (1889), Supt., Bank Lock Dept., Yale & Towne Mfg. Co., and *for mail*, Ripawam Pl., Stamford, Conn.
- TAYLOR, Wm. M. (1888; 1904), Pres., Chandler & Taylor Co., S. Addison St., and 2426 E. Washington St., Indianapolis, Ind.
- TAYLOR, Wyatt W. (Associate, 1908), Cons. Engr., 2 Rector St., New York, and Spuyten Duyvil, N. Y.
- TEELE, Fred W. (1904), Genl. Mgr., Porto Rico Rys. Co., Ltd., San Juan, Porto Rico.
- TEN BROECK, Floyd G. (1903), Cons. Engr., Fifth Ave. Bldg., 200 Fifth Ave., New York, and 1421 Glenwood Rd., Brooklyn, N. Y.
- TENNEY, Albert Ball (1896; 1904), V. P., Malden Elec. & Suburban Gas & Elec Co., 84 State St., Boston, Mass.

- TERRELL, Cary D. (Junior, 1901), Asst. Mgr. of Sales, Southwestern Dist., Pressed Steel Car Co., and Western Car & Fdy. Co., 504 Bank of Commerce Bldg., St. Louis, Mo.
- TERRY, CHARLES D. (1902; 1908), Supt., Mills Depts., Natl. Tube Co., Kewanee Wks., and *for mail*, 334 Prospect St., Kewanee, Ill.
- TERWILLIGER, Harry L. (Associate, 1901), Sales Mgr., Harron, Rickard & McCone, 139-149 Townsend St., and *for mail*, 2865 Devisadero St., San Francisco, Cal.
- THOMAS, Carl C. (1908), Prof. Steam and Gas Engrg., Univ. of Wisconsin, Madison, Wis.
- THOMAS, Charles W. (1888), Mech. Dept., Columbia Univ., New York, N. Y.
- THOMAS, David G. (1909), Ch. Engr., Denver Union Water Co., Denver, Col.
- THOMAS, Edward G. (1890; 1907), Engr., Choralcelo Mfg. Co., 33 Broad St., Boston, Mass.
- THOMAS, Edward W. (1880), Genl. Mgr., Con. Cotton Duck Co., Baltimore, Md., and *for mail*, 111 Stevens St., Lowell, Mass.
- THOMAS, Fred H. (Junior, 1909), Sales Engr., C. & G. Cooper Co., Mt. Vernon, N. Y.
- THOMAS, George Carlyle (Junior, 1907), Engr., Singer Mfg. Co., Factory 10, and *for mail*, 700 Noble Ave., Bridgeport, Conn.
- THOMAS, Horace T. (1909), Designing Engr., Reo Motor Car Co., and 1100 Mich. Ave., E., Lansing, Mich.
- THOMAS, James Winthrop (1905), care Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, N. Y.
- THOMAS, Jay G. (Junior, 1906), Draftsman, Westinghouse Mch. Co., East Pittsburg, and *for mail*, 500 Elliott St., Wilkinsburg, Pa.
- THOMPSON, Albert W. (1900; 1907), Supt., Mch. Shop, Amoskeag Mfg. Co., and Franklin and Merrimack Sts., Manchester, N. H.
- THOMPSON, Byron Lyman (Associate, 1908), Asst. Mgr., Bi-Carbonate Dept., Solvay Process Co., and *for mail*, 212 Erie St., Syracuse, N. Y.
- THOMPSON, David (1905), Mining and Cons. Engr., Box 9, P. O., Castlemaine, Victoria, Australia.
- THOMPSON, Edward C. (Junior, 1909), Genl. Mgr., Victor Tire Traction Co., 16 State St., Boston, and *for mail*, 96 Greene Ave., Dorchester, Mass.
- THOMPSON, Edward P. (1884), M. E., Registered Pat. Atty. and Cons. Engr., 1371 Columbia Rd., Washington, D. C.
- THOMPSON, Erwin W. (1884), Dist. Mgr., Southern Cotton Oil Co., Charlotte, N. C.
- THOMPSON, Hugh L. (1894), Waterbury, Conn.
- THOMPSON, Samuel Kesley (Associate, 1900), Cons. Mech. Engr., 703 R. E. Trust Bldg., Philadelphia, and *for mail*, Jenkintown, Pa.
- THOMPSON, Sanford E. (1909), Cons. Engr., Newton Highlands, Mass.
- THOMSON, Francis du Pont (1892; 1899), Cons. Engr., Wheeling Mold & Fdy. Co., Wheeling, W. Va.

- THOMSON, John (1887), Manager, 1892-1895; Pres., John Thomson Press Co., 253 Broadway, and Hotel St. Andrew, 72d St. and Broadway, New York, N. Y.
- THOMSON, J. Stewart (Junior, 1901), 42 E. 23d St., New York, N. Y., and *for mail*, P. O. Box 292, Little Falls, N. J.
- THOMSON, T. Kennard (1907), Cons. Engr., Hudson Terminal Bldg., 50 Church St., New York, and Yonkers, N. Y.
- THORNE, Wm. H. (1884), Engr., Wm. Sellers & Co., 1600 Hamilton St., and *for mail*, 221 Gowen Ave., Mt. Airy, Philadelphia, Pa.
- THORNTON, William F. (1909), Mech. Engr., Thornton Bros., 918 Brown-Marx Bldg., Birmingham, Ala.
- THORNTON, Wm. Mynn (1900), Prof. Applied Math., and Dean Dept. of Engrg., Univ. of Va., Charlottesville, Va.
- THORP, Frederick P. (Junior, 1902), Power & Mining Mch. Co., 115 Broadway, New York, N. Y.
- THORP, George G. (1892; 1904), Second V. P., Ill. Steel Co., Commercial Natl. Bank Bldg., Chicago, and 1012 Lake Shore Drive, Evanston, Ill.
- THORPE, John C. (Junior, 1903), Asst. Prof. Steam Engrg., Univ. of Ill., and 407 E. Main St., Urbana, Ill.
- THORPE, Robt H. (1897), Engr. and Agent, Mansion House Bldg., 4 Queen Victoria St., London, E. C., and The Birches, Sevenoaks, Kent, England.
- THRALL, George C. (1908), Genl. Mgr., Taylor Water Tube Boiler Co., Detroit, Mich.
- THRELFALL, Wm. V. (1902), 601 Hitchcock Bldg., Springfield, and 358 Park St., West Springfield, Mass.
- THRESHER, Alfred A. (1903), Cons. Engr., 29 Broadway, New York, N. Y.
- THULLEN, L. H. (1905), Ch. Elec. Engr., Triumph Elec. Co., and *for mail*, 2873 Linwood Rd., Hyde Pk., Cincinnati, O.
- THUMAN, Frederic (1900), Life Member; Ch. Engr., Humphreys & Glasgow, 36-38 Victoria St., Westminster, London, S. W., and 68 S. Audley St., London, W., England.
- THURN, Theodore (Junior, 1904), care J. R. Geary, Yokohama United Club, Yokohama, Japan.
- THURSTON, Edward D., Jr., (Junior, 1909), Tutor, Dept. Mech. Engrg., Columbia Univ., and *for mail*, 617 W. 113th St., New York, N. Y.
- THURSTON, George H. (1902), Asst. Mech. Engr., Cons. Gold Fields of South Africa, Ltd., Box 1167, Johannesburg, Transvaal, South Africa.
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- TIPLADY, John T. (1909), Supt. Mch. and Power Plant, Variety Iron & Steel Wks. Co., Cleveland, O.
- TISCHNER, Charles F., Jr. (Junior, 1903), Pat. Atty., 141 Broadway, New York, and *for mail*, 397 Fourth St., Brooklyn, N. Y.

- TITCOMB, George E. (1908), V. P., J. M. Dodge Co., and 60 W. Tulpehocken St., Philadelphia, Pa.
- TITCOMB, Roland Elbert (Junior, 1904), Walworth Mfg. Co., Boston, and *for mail*, Ipswich, Mass.
- TOBEY, Wm. L. (1890), Mech. Engr., Lockwood Mfg. Co., East Boston, and *for mail*, 74 Wash. Ave., Winthrop, Mass.
- TOBIN, Robert P. (1909), Ch. Tech. Dept., Vacuum Oil Co., 49 Federal St., Boston, Mass.
- TODD, Robert I. (1907), V. P. and Genl. Mgr., Ind. Traction & Terminal Co., Indianapolis, Ind.
- TOLMAN, James P. (1894), Pres., Samson Cordage Wks., 88 Broad St., Boston, and *for mail*, 84 Highland St., West Newton, Mass.
- TOLTZ, Max E. R. (1904), Manistee & Grand Rapids R. R. Co., 702 Manhattan Bldg., St. Paul, Minn.
- TOMLINSON, Charles E. (Associate, 1908), Smith Premier Type-writer Co., Syracuse, N. Y.
- TOMPKINS, S. (1887; 1890), Ch. Engr., C. I. and B. R. R. Co., Franklin and DeKalb Aves., Brooklyn, N. Y.
- TOMPKINS, Samuel D. (Associate, 1898), Pres., Smooth-On Mfg. Co., 572 Communipaw Ave., and 533 Communipaw Ave., Jersey City, N. J.
- TORRANCE, Henry, Jr. (1897; 1902), Mgr., Hudson Terminal Bldg., 50 Church St., New York, N. Y., and Tenafly, N. J.
- TORRANCE, Kenneth (1885; 1893), Mech. Engr., Genl. Elec. Co., and 22 Washington Ave., and 1 State St., Schenectady, N. Y.
- TORREY, Herbert Gray (1890), Life Member; U. S. Assayer, U. S. Assay Office, 30 Wall St., New York, N. Y., and Stirling, N. J.
- TOWER, Daniel W. (1900; 1907), Pres., Grand Rapids Brass Co., 142 Court St., and 531 Jefferson Ave., Grand Rapids, Mich.
- TOWL, Forrest M. (1890), Cons. Engr., 26 Broadway, New York, and 794 Carroll St., Brooklyn, N. Y.
- TOWLE, William Mason (1887), Life Member; Supt. of Shops, Clarkson Memorial Sch. of Tech., and *for mail*, 27 Main St., Potsdam, N. Y.
- TOWN, Frederic E. (1905), Local Mgr., Otis Elev. Co., Keenan Bldg., and Old Heidelberg Apts., Braddock Ave. and Waverly St., Pittsburg, Pa.
- TOWNE, Henry R. (1882), President, 1888-1889; Vice-President, 1884-1886; Life Member; Pres., Yale & Towne Mfg. Co., Stamford, Conn., and *for mail*, 121 Madison Ave., New York, N. Y.
- TOWNE, Thos. (Associate, 1895), Eastern Sales Agt., Union Drawn Steel Co., Wash. and Canal Sts., and 593 Riverside Drive, New York, N. Y.
- TOWNSEND, David (1882), Vice-President, 1899-1901; Mech. and Cons. Engr., Rm. 55, De Long Bldg., Cor. 13th and Chestnut Sts., and *for mail*, 1723 Wallace St., Philadelphia, Pa.
- TOWNSEND, Harry P. (Junior, 1904), Secy., H. P. Townsend Mfg. Co., Hartford, and Cons. Engr., E. J. Manville Mch. Co., and *for mail*, P. O. Box 352, Waterbury, Conn.
- TRACY, Lyndon Sanford (Junior, 1900), Mgr., Soda Ash Dept., Solvay Process Co., and Brattle Rd., Syracuse, N. Y.

- TRACY, Theron H. (1902), Pres., Tracy-Devereaux Co., 211-15 Kerckhoff Bldg., Los Angeles, Cal.
- DE TRAMPE, J. Adam C. L. (1904), 1703 Spruce St., Philadelphia, Pa.
- TRASK, Walter H., Jr. (Junior, 1908), Dist. Sales Mgr., Denver Engrg. Wks. Co., 316 Dooly Bldg., and Univ. Club, Salt Lake City, Utah.
- TRAUTSCHOLD, Reginald (Junior, 1904), Pres. and Genl. Mgr., Intercontinental Engrg. Co., 126 Liberty St., New York, N. Y., and 90 Upper Mountain Ave., Montclair, N. J.
- TRAUTWEIN, Alfred P. (1884), V. P., Am. Welding Co., Carbon-dale, Pa.
- TRAVER, Wilber H. (Associate, 1904), Mgr., Mining and Contract Dept., Chicago Pneu. Tool Co., 1010 Fisher Bldg., Chicago, Ill.
- TREAT, Charles Henry (Junior, 1895), with Am. Blower Co., and *for mail*, 98 Piquette Ave., E., Detroit, Mich.
- TREFTS, John C. (1909) Farrar & Trefts, 54-56 Perry St., Buffalo, N. Y.
- TREGELLES, Henry (1888), Norton, Megaw & Co., Ltd., Rio de Janeiro, Brazil, South America.
- TREMAINE, E. G. (1889), Automatic Weighing Mch. Co., 136 Commerce St., Newark, and Hackensack, N. J.
- TRIBE, James (1889), Allis-Chalmers Co., and *for mail*, 575 Murray Ave., Milwaukee, Wis.
- TRINKS, Chas. Leopold W. (1905), Prof. Mech. Engrg., Carnegie Tech. Schools, and 5719 Woodmont St., Pittsburgh, Pa.
- TROTH, P. Howard (1903), Genl. Sales Mgr., The Fairbanks Co., 416 Broome St., New York, N. Y., and Rahway, N. J.
- TROTZ, J. O. E. (1906), Svanevik, Ronneby, Sweden.
- TROUTMAN, Howard Ellsworth (Associate, 1906), 4551 Forestville Ave., Chicago, Ill.
- TROWBRIDGE, Amasa (1892; 1903), Factory Mgr., Veeder Mfg. Co., and 17 Townley St., Hartford, Conn.
- TROWBRIDGE, Francis C. (Junior, 1889), Secy., Treas. and Genl. Mgr., Black-Clawson Co., and 449 N. Third St., Hamilton, O.
- TRUBE, G. A. (1900), Sales Mgr., Eng. Dept., British Westinghouse Elec. & Mfg. Co., Ltd., Trafford Park, Manchester, and the Up-lands, Bowdon, Cheshire, England.
- TRUELL, Karl O. (Associate, 1906), Colloseus Cement Co., 5 Nassau St., New York, N. Y.
- TRUMP, Charles N. (1888), Pres. Trump Bros. Mch. Co., and *for mail*, 1311 W. 13th St., Wilmington, Del.
- TRUMP, Edward N. (1880; 1890), Vice-President, 1905-1907; Genl. Mgr. and Ch. Engr., Solvay Process Co., and V. P., Semet-Solvay Co., and *for mail*, 1912 W. Genesee St., Syracuse, N. Y.
- TUCKER, Edwin D. (1898), Mech. Engr., 189 Sixth Ave., New York, N. Y.
- TUCKER, Frank Stevenson (1905), Pres., Tucker & Laxton, 906 Realty Bldg., Charlotte, N. C.
- TUFTS, Leonard (1901), First V. P., Am. Soda Fountain Co., 282 Congress St., Boston, Mass., and *for mail*, Pinehurst, N. C.

- TURNER, Charles H. (Junior, 1905), Standard Steel Car Co., and *for mail*, 501 W. Jefferson St., Butler, Pa.
- TURNER, Charles P. (Associate, 1907), Constr. Foreman, Genl. Elec. Co., and *for mail*, 431 E. 138th St., New York, N. Y.
- TURNER, John (1896), Cons. Engr., 524 Tribune Bldg., New York, N. Y., and *for mail*, 33 S. Walnut St., East Orange, N. J.
- TURNER, William Payson (1900; 1908), Prof. Prac. Mechs., Purdue Univ., Lafayette, Ind.
- TUSKA, Gustave R. (1900), Cons. Engr., 68 William St., and 63 E. 52d St., New York, N. Y.
- TUTTLE, Irving E. (Junior, 1909), Mech. Draftsman, Westinghouse, Church, Kerr & Co., New York, and *for mail*, 198 Greene Ave., Brooklyn, N. Y.
- TUTTLE, Walter Irving (Junior, 1908), Secy., Treas. and Asst. Genl. Mgr., Frank Mossberg Co., Attleboro, Mass., and 32 Medway St., Providence, R. I.
- TUTTLE, Willard S. (1900), Pres., Garwood Bronze & Iron Wks., Garwood, and 1150 Evergreen Ave., Plainfield, N. J.
- TUTTLE, William B. (1905), V. P. and Genl. Mgr., San Antonio Gas & Elec. Co.; V. P. and Genl. Mgr., San Antonio Traction Co., 305 Houston St., and cor. New Braunfels Ave. and Via Madre, Alamo Heights, San Antonio, Tex.
- TWINING, Wm. S. (1897), Ch. Engr., Phila. Rapid Transit Co., 820 Dauphin St., Philadelphia, and *for mail*, 160 W. Coulter St., Germantown, Philadelphia, Pa.
- TYBERG, Oluf (1898), Point Loma, Cal.
- TYDEMAN, William A. (Junior, 1909), Secy., Macan Jr. Co., and 108 S. Second St., Easton, Pa.
- TYLER, Chas C. (1897), Wks. Mgr., Remington Arms Co., P. O. Box 507, Ilion, N. Y.
- TYLER, Willard Curtis (Associate, 1908), European Mgr., Keasby & Mattison Co., 653 Caxton House, Sanctuary, Westminster, London, S. W., England.
- UEHLING, Edward A. (1883), Life Member; Pres., Uehling Instrument Co., Delaware Ave., and *for mail*, 199 Franklin Ave., Passaic, N. J.
- UIHLEIN, William B. (Junior, 1907), Asst. to Supt., Jos. Schlitz Brewing Co., Milwaukee, Wis.
- ULBRICHT, T. C. (Junior, 1908), Instr., Engrg. Dept., Pratt Inst., and *for mail*, 170 St. James Pl., Brooklyn, N. Y.
- ULMANN, Chas. J. (1886), Mech. Engr., Bernhard Ulmann & Co., 107-113 Grand St., New York, N. Y.
- ULRICH, Max Julius (1906), Ch. Draftsman, Alberger Condenser Co., 95 Liberty St., New York, N. Y.
- UMSTEAD, Chas. Henry (Associate, 1903), Supt. of Constr., U. S. Pub. Bldgs., Treas. Dept., and *for mail*, New Court House, Tyler, Tex.
- UNGER, John S. (1886), Cons. Engr., 613 N. Y. Life Bldg., and *for mail*, 383 Evanston Ave., Chicago, Ill.
- UNWIN, William Cawthorne (Honorary, 1898), 29 Palace Gate, Kensington, London, W., England.

- UPP, John W. (1903), Mgr.; Switchboard Dept., Genl. Elec. Co., and *for mail*, 40 Wendell Ave., Schenectady, N. Y.
- UPSON, Lyman A. (1884), Treas., Upson-Martin Co., Thompsonville, Conn.
- UPSON, Maxwell Mayhew (1901; Associate, 1907), Secy., Ch. Engr. and Genl. Mgr., Raymond Concrete Pile Co., 140 Cedar St., New York, N. Y., and Chestnut St., Englewood, N. J.
- UPTON, William Bayly (1894), Cons. Engr., Washington Loan and Trust Bldg., 902 F St., N. W., Cleveland Park, Washington, D. C.
- VAIL, Jesse A. (1909), Genl. Mgr., Fairbanks, Morse Mfg. Co., Beloit, Wis.
- VAILE, J. Henry (1888), Vaile & Kimes, and *for mail*, 119 N. Jefferson St., Dayton, O.
- VALENTINE, Louis Rossiter (Junior, 1907), Charles Warner Co., P. O. Box 28, Phoenixville, Pa.
- VALENTINE, Warren P. (Junior, 1904), Summerlea Apts., Summerlea and Elwood Sts., Pittsburg, Pa.
- VAN BUSKIRK, Henry C. (1906), Supt. M. P., Colo. & Southern Ry., and *for mail*, 1121 Clarkson St., Denver, Colo.
- VAN DEINSE, A. F. (Junior, 1905), Westinghouse Elec. & Mfg. Co., and *for mail*, 123 San Francisco St., El Paso, Tex.
- VANDEMOER, John (Associate, 1904), Engr., Apartado 64, Saltillo, Coahuila, Mexico.
- VANDERBILT, Aaron (1880; 1884; 1908), Life Member; Army and Navy Club, New York, and *for mail*, Westhampton, L. I., N. Y.
- VANDERBILT, Cornelius (1899; Associate, 1901), 30 Pine St., and *for mail*, 677 Fifth Ave., New York, N. Y.
- VANDERGRIFT, James W. (1909), Supt., Natl. Transit Co., and *for mail*, 665 W. Chestnut St., Lancaster, Pa.
- VAN DERHOEF, Geo. Nixon (1893; 1898), Eastern Cons. Engr., Dodge Mfg. Co., Cedar and Wash. Sts., New York, N. Y., and Arlington, N. J.
- VAN DERVORT, Adrian O. (Junior, 1900), Supt., Hammett Mch. Wks., and *for mail*, 90 Oakwood Ave., Troy, N. Y.
- VAN DER WILLIGEN, T. A. (1896; 1904), Continental Rep., Humphreys & Glasgow (London), and *for mail*, 209 Chaussée d'Ixelles, Brussels, Belgium.
- VAN DUZEE, Harold (Junior, 1885), Cons. Engr., 427 Walnut St., Philadelphia, Pa.
- VAN HORNE, J. R. (Junior, 1902), 5098 Washington Ave., St. Louis, Mo.
- VAN NOSTRAND, Leonard Green (Junior, 1906), V. P. and Secy., Stone-Van Nostrand Co., Asst. Secy. and Treas., Pa. Anthracite Coal Co., and *for mail*, 525 Monroe Ave., Scranton, Pa.
- VAN TRUMP, Charles R. (1893; 1898), Life Member; 1318 W. 13th St., Wilmington, Del.
- VAN VALKENBURGH, Ralph D. (1901; Associate, 1905), Engrg. Salesman, Taylor Iron & Steel Co., High Bridge, N. J., and *for mail*, 409 Madison Ave., Scranton, Pa.

- VAN WINKLE, Edward (1904; 1908), Cons. Pat. Engr., West St. Bldg., Cedar and West Sts., New York, and The Stuyvesant, 483 Park Pl., Brooklyn, N. Y.
- VAN WINKLE, Herbert H. (Junior, 1906), Mech. Engr., John H. McGowan Co., 54 Central Ave., Cincinnati, O.
- VAN ZANDT, Paul C. (1900; 1907; 1909), Mech. Engr. and Salesman, Cement Dept., Allis-Chalmers Co., 1522 First Natl. Bank Bldg., Chicago, and 338 S. Euclid Ave., Oak Park, Ill.
- VARNEY, Frank Hastings (1909), Engr., Pacific Gas & Elec. Co., and 977 Green St., San Francisco, Cal.
- VARNEY, Wm. Wesley (1892), Mech. Engr., and Atty.-at-Law, 1221 Calvert Bldg., St. Paul and Fayette St., and *for mail*, 710 N. Carey St., Baltimore, Md.
- VAUCLAIN, S. M. (1894), Vice-President, 1904-1906; Supt., Baldwin Loco. Wks., 500 N. Broad St., Philadelphia, and Rosemont, Pa.
- VAUGHAN, Henry H. (1899), Asst. to V. P., Canadian Pacific Ry., and 4 Weredale Park, Montreal, Canada.
- VAUGHAN, John Alfred (1902), Ch. Insp. Mchy., Box 1132, Johannesburg, Transvaal, South Africa.
- VEAL, C. B. (Associate, 1907), Asst. Prof. Mch. Design, Purdue Univ., Lafayette, and *for mail*, 633 Russell St., West Lafayette, Ind.
- VEEDER, Curtis H. (1888; 1897), Pres., Veeder Mfg. Co., 28 Sargeant St., Hartford, Conn.
- VEIT, Richard C. (1891), Mgr., Marine Dept., Standard Oil Co., 26 Broadway, and 171 W. 71st St., New York, N. Y.
- VEITCH, Thomas (Junior, 1901), Consulting Auto. Engr., 1928 Broadway, New York, N. Y., and *for mail*, Haworth, N. J.
- DE VERASTEGUI, Albert (1889), Mgr., Export Dept., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y.
- VERNON, Percy Venables (1906), Ch. Designer, Alfred Herbert, Ltd., Mch. Tool Makers, Coventry, and *for mail*, Penvorn, Manor Rd., Coventry, England.
- VIALI, William A. (Associate, 1902), Secy., Brown & Sharpe Mfg. Co., Providence, R. I.
- VICKESS, Samuel (1901), Cons. Engr., 107 Front St., New York, N. Y.
- VINCENT, Arthur S. (Associate, 1908), Cons. Engr. and Supt., Belnord Apts., 86th St. and Broadway, New York, N. Y.
- VINCENT, Jesse Gurney (Associate, 1908), Supt. of Inventions, Burroughs Adding Mch. Co., and *for mail*, 301 Addison Apts., Detroit, Mich.
- VIOLA, Bartholomew (1901), Managing and Ch. Engr., Chem. Wks. of Chas. Pfizer & Co., 11 Bartlett St., and 96 Rogers Ave., Brooklyn, N. Y.
- VOGT, Axel S. (1884), Mech. Engr., Pa. R. R. Co., Altoona, Pa.
- VOIGHT, Henry Gustave (1908), Supt. Design and Constr., Russell & Erwin Mfg. Co., and *for mail*, P. O. Box 406, New Brighton, Conn.
- VON AMMON, Siegfried (1904; 1905), Mech. Engr., British Westinghouse Elec. & Mfg. So., Trafford Park, Manchester, and *for mail*, 4 Beechfield, Bowdon, Manchester, England.

- VON GOEBEN, Carl (1899), Engr. and Contr., 140 Cedar St., New York, N. Y., and *for mail*, 34 Irving St., Montclair, N. J.
- VON PHILP, C. (1890), Mgr., Mchy. Dept., Bethlehem Steel Co., South Bethlehem, and Bethlehem, Pa.
- VON PHUL, William (1907), Engr. in charge Southern Properties, Ford, Bacon & Davis, Liverpool, London & Globe Bldg., and *for mail*, 508 Walnut St., New Orleans, La.
- VOORHEES, Gardner Tufts (1900), Refrig. Engr., Engrs'. Club, 32 W. 40th St., New York, N. Y.
- VOSE, Clarence (1891), Bellport, L. I., and Brooklyn, N. Y.
- VOSE, Fred Hale (Junior, 1906), Mech. Engrg. Dept., Case Sch. of Applied Science, and *for mail*, 10,521 Lee Ave., N. E., Cleveland, Ohio.
- WACHALOFISKY, Chas. J. (Junior, 1904), Mech. Engr., Osborn Engrg. Co., and *for mail*, Lake and Cove Aves., Lakewood, O.
- WADDELL, Chas. Edward (1903; 1907), Cons. Engr., 78 Patton Ave., Asheville, and Biltmore, N. C.
- WADDELL, George F. (Associate, 1898), Supt. of Constr., Steptoe Valley Smelting & Min. Co., McGill, Nev.
- WADLEIGH, George R. (1907), Asst. Mgr., Jackson Fiber Co., Bemis, Madison Co., Tenn.
- WADSWORTH, Frank L. O. (1903), Cons. Engr., Sewickley, and Duquesne Club, Pittsburg, Pa.
- WAERN, Adolph Wm. (1908), Engr., Mchy. Dept., Bethlehem Steel Co., South Bethlehem, and 210 E. Broad St., Bethlehem, Pa.
- WAGNER, Emilio F. (1891), Engr., Coca 76, Lima, Peru, South America.
- WAGNER, Frank C. (1895), Prof. Steam Engrg., Rose Poly. Inst., and *for mail*, 1111 S. 6th St., Terre Haute, Ind.
- WAINWRIGHT, Lucius M. (1907), Pres., Diamond Chain & Mfg. Co., 241 W. Georgia St., and 1851 N. Penna St., Indianapolis, Ind.
- WAIT, Henry Heileman (1905), Pres., Rateau Turbine Co., 215 Wabash Ave., and *for mail*, 4919 Madison Ave., Chicago, Ill.
- WAITE, Edward B. (Associate, 1902), Head Instr. Dept., Am. Sch. of Correspondence, 58th St. and Drexel Ave., Chicago, Ill.
- WAITT, Arthur M. (1893), Vice-President, 1900-1902; Cons. Engr., Rms. 1417-1418, 165 Broadway, New York, N. Y., and Landheim, Sharon, Conn.
- WALDO, Leonard (1894), Cons. Engr., Rm. 802, Atlantic Bldg., 49 Wall St., New York, N. Y., and *for mail*, 640 W. 8th St., Plainfield, N. J.
- WALDRON, Frederick A. (1890; 1896), Industrial Engr., Rm. 2412, 37 Wall St., New York, N. Y., and 120 Crescent Ave., Plainfield, N. J.
- WALES, Chas. M. (1890), Agt., Cleveland City Forge & Iron Co., 11 Broadway, and 468 Riverside Drive, New York, N. Y.
- WALKER, Frank A. (Junior, 1909), with B. B. & R. Knight, and *for mail*, 46 Ruig St., Providence, R. I.
- WALKER, Frederick Wiley (1898; 1909), V. P. and Ch. Engr., Comstock, Haigh, Walker Co., 1018-20 Ford Bldg., Detroit, Mich., and *for mail*, Cedarburg, Ozaukee Co., Wis.

- WALKER, Gilbert S. (1904), Civ. and Mech. Engr., Rm. 307, P. O. Bldg., Wheeling, W. Va.
- WALKER, Perley F. (1908), Prof. Mech. Engrg., Univ. of Kan., and *for mail*, 1301 Ohio St., Lawrence, Kan.
- WALKER, Sidney G. (1907), Engr., Mfrs.' Mut. Fire Ins. Co., 815 Banigan Bldg., and 50 Montague St., Providence, R. I.
- WALKER, Thomas C. (1891), Pres., Walker Mfg. Co., 2156 15th St., Denver, Col.
- WALL, Geo. L. (1897; 1904), Asst. Genl. Mgr., Lima Loco. & Mch. Co., and *for mail*, 1103 W. High St., Lima, O.
- WALL, William Guy (1907), Mech. Engr., Natl. Motor Vehicle Co., Indianapolis, Ind.
- WALLACE, David A. (1892; 1904), Mech. Engr., Western Elec. Co., Hawthorne, and *for mail*, 515 Lake St., Oak Park, Ill.
- WALLACE, Fred A. (Associate, 1896), M. M., Pacific Mills, and *for mail*, 44 Thorndike St., Lawrence, Mass.
- WALLACE, Jacob H. (Associate, 1908), Mech. Engr., J. P. Karns Tunneling Mch. Co., Mercantile Trust and Bank Co. Bldg., and *for mail*, 1313 Seventh St., Boulder, Col.
- WALLACE, Jos. H. (1897; 1901), Industrial Engr., Temple Court Bldg., and 604 W. 115th St., New York, N. Y., and 125 High Holborn, London, W. C., England.
- WALLACE, Ross S. (1904), Supt., Peoria Gas & Elec. Co., 125-127 N. Jefferson Ave., and 216 North St., Peoria, Ill.
- WALLICHS, Adolph O. (1908), Prof., Tech. Hochschule, and *for mail*, Nizze-Allee, 65, Aachen, Germany.
- WALLIS, James T. (1901), Supt. Motive Power, Erie Div., Pa. R. R., and Northern Central Ry., and 7 Trinity Pl., Williamsport, Pa.
- WALLIS, Philip (1886), Hotel Roanoke, Roanoke, Va.
- WALMSLEY, W. N. (1907), Genl. Mgr., Sao Paulo Tramway, Light & Power Co., Ltd., Sao Paulo, Brazil, S. A.
- WALSH, Thomas J. (Junior, 1906), Stone & Webster Engrg. Corp., Boston, Mass., and *for mail*, 97 Howard Ave., Ansonia, Conn.
- WALWORTH, Arthur C. (1886), Manager, 1894-1897; Pres., Walworth Constr. & Supply Co., 100 Pearl St., Boston, and 931 Centre St., Newton Centre, Mass.
- WARD, Charles (1892), Cons. Engr., Charles Ward Engrg. Wks., Charleston, and 1224 Quarrier St., Kanawha Co., W. Va.
- WARD, Charles E. (1900), Pres. and Genl. Mgr., Charles Ward Engrg. Wks., and 213 Morris St., Charleston, W. Va.
- WARDWELL, Arthur Soper (Junior, 1906), Wire Ch., N. Y. & N. J. Telephone Co., and 613 Throop Ave., and *for mail*, 495 Wash. Ave., Brooklyn, N. Y.
- WARG, Robert (1903), Natl. Blower Wks., 17th St. and St. Paul Ave., and 319 Farwell Ave., Milwaukee, Wis.
- WARMAN, William A. (1908), Supt. and Designer, Keller Mech. Engraving Co., 570 West Broadway, New York, N. Y.
- WARNER, Robt. L. (1899), Warner, Tucker & Co., 85 Devonshire St., Boston, and Elm St., Concord, Mass.
- WARNER, Worcester R. (1880), Manager, 1890-1893, President, 1896-1897; Pres., Warner & Swasey Co., and *for mail*, 7720 Euclid Ave., Cleveland, O.

- WARREN, Ambrose Gilmore (1907), Mech. Engr., J. W. Paxson Co., 1607 Mt. Vernon St., Philadelphia, Pa.
- WARREN, John E. (1886), Agt., Paper and Pulp Mills, and 159 Cumberland St., Cumberland Mills, Me.
- WARREN, Kenneth L. (1907), Cons. Engr., Fraserville, P. Q., Canada.
- WARREN, Walter B. (Associate, 1901), V. P., Warren Bros. Co., 323 Beck Bldg., Portland, Ore.
- WARRINER, Samuel D. (1893), V. P. and Genl. Mgr., L. V. Coal Co., Wilkes-Barre, Pa.
- WARRINGTON, James N. (1884; 1885), 617 S. Grand Ave., Los Angeles, Cal.
- WARRINGTON, Jesse (1887), Mech. Supt., Nordyke & Marmon Co., and *for mail*, 265 N. Randolph St., Indianapolis, Ind.
- WASHBURN, William S. (1891), 1363 Main St., Campello Sta., Brockton, Mass.
- WATERMAN, Charles (1903), Supt., Southern Motor Wks., Jackson, Tenn.
- WATERS, George H. (1901), Pres., Waters-Colver Co., and 345 Bement Ave., West New Brighton, N. Y.
- WATERS, Rossiter L. (Junior, 1903), Hedden Constr. Co., 1 Madison Ave., and *for mail*, 355 W. 145th St., New York, N. Y.
- WATERS, William L. (1909), Designing Engr., Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.
- WATSON, Frank (Junior, 1893), Lexington, Mass.
- WATSON, George Linton (Junior, 1905), Ch. Engr., United Paving Co., Genl. Contrs., Atlantic City, N. J., and *for mail*, Engrs.' Club, Philadelphia, Pa.
- WATSON, Henry D. (1897; 1900), Sales Dept., Asst. Mgr., Westinghouse Mch. Co., 165 Broadway, New York, and 136 E. 19th St., Flatbush, Brooklyn, N. Y.
- WATSON, Herbert L. (Junior, 1907), Sales Engr., Allis-Chalmers Co., 50 Congress St., Boston, Mass.
- WATSON, Wm. (1886), Secy., Am. Acad. Arts and Sci., 107 Marlborough St., Boston, Mass.
- WATTS, George W. (1903; 1904), Wks. Mgr., Canadian Genl. Elec. Co., 212 King St., and *for mail*, 1 Beaumont Rd., Toronto, Ont., Canada.
- WEAR, Burt C. (Junior, 1905), Draftsman, Engrg. Dept., Repub. Iron & Steel Co., and *for mail*, 272 Arlington St., Youngstown, O.
- WEBB, John Burkitt (1882), Prof. Math. and Mech., Cons. Engr., Hoboken, and Glen Ridge, N. J.
- WEBBER, Henry (1886), Mech. Engr., Finch Mfg. Co., Scranton, and *for mail*, 125 Harper St., Dunmore, Pa.
- WEBBER, Sam'l S. (1880), Manager, 1902-1905; Ch. Engr., Trenton Iron Co., and *for mail*, 153 Greenwood Ave., Trenton, N. J.
- WEBBER, William Oliver (1881), Cons. Engr., 432 Exch. Bldg., Boston, Mass.
- WEBER, Geo. A. (Associate, 1896), 71 Courtland Ave., Stamford, Conn.

- WEBER, Herman Frederick (Junior, 1908), Mech. Engr., Elec. Bond & Share Co., 62 Cedar St., and *for mail*, 815 E. 169th St., New York, N. Y.
- WEBER, O. L. E. (1895; 1905), Mgr., Mich. Sulphite Fibre Co., Port Huron, Mich.
- WEBSTER, Hosea (1883), Sales Mgr., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 174 Mountain Ave., Montclair, N. J.
- WEBSTER, Warren (Associate, 1903), Pres., Warren Webster & Co., Point and Elm Sts., Camden, and 41 W. Walnut Ave., Merchantville, N. J.
- WEBSTER, William R. (1889), Cons. and Insp. Engr., 411 Walnut St., Philadelphia, Pa.
- WEBSTER, William Reuben (1893; 1907), Genl. Supt., Bridgeport Brass Co., and *for mail*, 208 Brooklawn Ave., Bridgeport, Conn.
- WEEKS, Charles H. (1892), V. P., Buckeye Eng. Co., Lock Box 175, and 301 McKinley Ave., Salem, O.
- WEEKS, Paul (Junior, 1905), Baldwin Loco. Wks., Philadelphia, Pa.
- WEGG, David S., Jr. (Junior, 1909), Telluride Inst., Olmsted, Provo, Utah, and 16 E. Ontario St., Chicago, Ill.
- WEHNER, Lewis (1901; 1907), Mech. Engr., The Bucyrus Co., South Milwaukee, and *for mail*, Univ. Club, Milwaukee, Wis.
- WEICHERT, Arnold E. (1907), Robins Conveying Belt Co., Passaic, and *for mail*, 224 N. Fifth St., Newark, N. J.
- WEICK, Charles William (1901), Instr. in Industrial Math. and Mech Drawing, Teachers College, Columbia Univ., and 507 W. 124th St., New York, N. Y.
- WEICKEL, Henry (1889), Ch. Draftsman, 38th and Natl. Ave., and *for mail*, 347 23d Ave., Milwaukee, Wis.
- WEIL, Charles L. (1895), Cons., Engr., 616 Union Trust Bldg., and *for mail*, 146 Alexandrine Ave., W., Detroit, Mich.
- WEINBERG, Semen G. (1901; 1907), Min. Engr., Mgr., Worthington Pumping Eng. Co., and *for mail*, P. O. Box 65, St. Petersburg, Russia.
- WEINLAND, Hermon G. (Junior, 1905), Mech. Engr., Safety Emery Wheel Co., and *for mail*, 226 W. College Ave., Springfield, O.
- WEINSHANK, Theodore (1906), Mgr. Am. Engrg. Supply Co., 729 Newton Claypool Bldg., and 2341 N. Delaware St., Indianapolis, Ind.
- WEISSBLATT, Murray E. (Junior, 1907), Crocker-Wheeler Co., Ampere, N. J., and 312 Manhattan Ave., New York, N. Y.
- WELLMAN, Samuel T. (1881), Manager, 1885-1888; Vice-President, 1896-1898; President, 1900-1901; Life Member; 8803 Euclid Ave., Cleveland, O.
- WELLS, Edward C. (1904), Supt., Hardie-Tynes Mfg. Co., and *for mail*, 1618 14th Ave., S., Birmingham, Ala.
- WELLS, Frank O. (1903), Pres. and Treas., Wells Bros. Co., and *for mail*, 8 Grinnell St., Greenfield, Mass.
- WELLS, Frederick Latimer (1892), 101 S. Clinton St., Chicago, Ill.
- WELLS, George Augustus (1905), Ch. Engr., Adams Express Co., 61 Broadway, New York, N. Y.

- WELLS, J. Bernard (Junior, 1909), Draftsman, A. T. & S. F. Ry., and *for mail*, 620 Fourth St., San Bernardino, Cal.
- WELLS, James Hollis (1904), Member of Firm, Clinton & Russell, Archs., 32 Nassau St., New York, N. Y.
- WELLS, J. Leland (1885), Pres., Wells & Newton Co., 292 Ave. B, New York, and *for mail*, Amityville, L. I., N. Y.
- WELLS, Robert G. (1909), Genl. Mgr., Tata Iron & Steel Co., Ltd., Sakchi, via Kallimati, B. N. Ry., India.
- WERST, Chas. Wm. (1909), Genl. Foreman, Baldwin Loco. Wks., 500 N. Broad St., Philadelphia, and 4603 Greene St., Germantown, Philadelphia, Pa.
- WESSINGER, Henry J. (1897), Ch. Engr., Oliver Iron Min. Co., 610 Wolvin Bldg., Duluth, Minn.
- WEST, Arthur (1902), Mgr., Power Dept., Bethlehem Steel Co., South Bethlehem, and 114 S. High St., Bethlehem, Pa.
- WEST, Thos. D. (1884), Fdy. Expt. and Mgr., West Steel Casting Co., E. 70th St., and *for mail*, 10511 Pasadena Ave., N. E., Cleveland, Ohio.
- WESTERFIELD, George Sumner (Junior, 1903), Mgr. and Dist. Mgr., Hoover, Owens, Rentschler Co., 326-328 Hennen Bldg., and Warren Webster & Co., New Orleans, La.
- WESTINGHOUSE, George (Honorary, 1897), President, 1909-1910; Pittsburg, Pa.
- WESTINGHOUSE, H. Herman (1884), Manager, 1889-1892; Vice-President, 1904-1906; Life Member; V. P., Westinghouse Air Brake Co., 165 Broadway, New York, N. Y.
- WESTON, Edward (1882), Pres., Weston Elec. Instrument Co., Waverly Park, Newark, N. J.
- WESTON, Frederick Willoughby (Associate, 1907), Rep., Baldwin Loco. Works., Standard Steel Wks. Co., 50 Church St., and 14 W. 48th St., New York, N. Y.
- WETMORE, Charles P. (1901), Pres., Am. Adding Mch. Co., and *for mail*, 1316 Carmen Ave., Chicago, Ill.
- WETTENGEL, C. Albert (Junior, 1903), Engr., Am. Zinc, Lead & Smelting Co., and *for mail*, P. O. Box 266, Caney, Kan.
- WEYMOUTH, Clarence R. (1904; 1907), Mech. Engr., in charge Engrg. Dept., Chas. C. Moore & Co., Engrs., 99 First St., San Francisco, and 2325 Blake St., Berkeley, Cal.
- WHALEY, W. B. Smith (1889; 1896), Mech. Engr., 1012 Tremont Bldg., Boston, and 19 Parker St., Newton Centre, Mass.
- WHEELER, Chas. Van Cise (1906), Supt., Projectile Dept., Firth-Sterling Steel Co., P. O. Box 812, and *for mail*, 1609 16th St., N. W., Washington, D. C.
- WHEELER, Clifton Harold (1901), V. P. and Genl. Mgr., C. H. Wheeler Mfg. Co., Lehigh Ave. and 18th St., and 521 Lincoln Drive, Philadelphia, Pa.
- WHEELER, Earl (Junior, 1907), Elec. and Mech. Engr., Elec. Speedometer & Dynamometer Mfg. Co., 1317 N. Y. Ave., and *for mail*, 1810 I St., N. W., Washington Barracks, Washington, D. C.
- WHEELER, Frank R. (1909), Mgr., C. H. Wheeler Mfg. Co., Vacuum Engrg. Co., 772 Monadnock Bldg., San Francisco, Cal.

- WHEELER, Frederick Meriam (1880), Life Member; Wheeler Condenser & Engrg. Co., West St. Bldg., 90 West St., New York, N. Y., and *for mail*, 159 Gates Ave., Montclair, N. J.
- WHEELER, Schuyler Skaats (1899), Pres., Crocker-Wheeler Co., Ampere, and res., Bernardsville, N. J.
- WHEELER, Seth (1894), Pres. A. P. W. Paper Co., Albany, and Castleton, N. Y.
- WHEELER, Seth, Jr. (Junior, 1905), V. P. and Genl. Supt., A. P. W. Paper Co., and 11 S. Hawk St., Albany, N. Y.
- WHEELER, Wm. Trimble (1905), Genl. Mgr., Trinity Engrg. Co., 90 West St., and 340 W. 21st St., New York, N. Y.
- WHINERY, Samuel (1895), Cons. Civ. Engr., 95 Liberty St., New York, N. Y., and *for mail*, 203 Glenwood Ave., East Orange, N. J.
- WHIPPLE, Eugene B. (Junior, 1902), Mech. Engr., 75 Westminster St., and 79 Irving Ave., Providence, R. I.
- WHIPPLE, William (Junior, 1905), Supt., Cinclare Central Factory, Cinclare, La.
- WHITAKER, Henry E. (1891; 1904), Mech. Engr., Parke, Davis & Co., and *for mail*, 873 Trumbull Ave., Detroit, Mich.
- WHITCOMB, Leroy Albert (Junior, 1909), Checker, N. Y. Edison Co., 55 Duane St., New York, and *for mail*, 516 Jefferson Ave., Brooklyn, N. Y.
- WHITE, Arthur M. (1903), Supt., Am. Loco. Co., and 228 Ash St., Manchester, N. H.
- WHITE, Edward F. (1891), Cons. Engr., Sulphur Plants, and Sand Lime Brick Plants, Pres., Rutland Mfg. Co., Rutland, Vt.
- WHITE, Everett H. (Junior, 1903), Mech. Engr., Plants 1 and 2, Crane Valve Co., and *for mail*, 494 Colorado Ave., Bridgeport, Conn.
- WHITE, George Henry (1906), Supt., Oil City Boiler Wks., and *for mail*, 4 Lincoln St., Oil City, Pa.
- WHITE, Harry Clinton (Junior, 1898), Jenkins Bros., 71 John St., and *for mail*, P. O. Box 2125, New York, N. Y.
- WHITE, Herbert J. (1909), 439 Eighth St., Brooklyn, N. Y.
- WHITE, James A. (Junior, 1900), Genl. Elec. Co., and *for mail*, 56 Baltimore St., Lynn, Mass.
- WHITE, John Culbertson (Junior, 1906), Cons. Steam Engr., Madison, Wis.
- WHITE, Joseph J. (1880), New Lisbon, N. J.
- WHITE, Maunsel (1882), Life Member; Cons. Engr. and Steel Met., P. O. Box 206, New Orleans, La.
- WHITE, Merton G. (Junior, 1906), Mgr., Sales Dept., A. D. Granger Co., 90 West St., New York, N. Y.
- WHITE, Sir William H., K. C. B. (Honorary, 1900), Naval Arch., 8 Victoria St., Westminster, and Cedarcroft, Putney Heath, London, S. W., England.
- WHITE, Wm. M. (1906), Hyd. Engr., I. P. Morris Co., Beach and Ball Sts., Philadelphia, and 150 Maplewood Ave., Germantown, Pa.
- WHITEFORD, James F. (1908), Betterment Sup., A. T. & S. F. R. R., and *for mail*, P. O. Box 541, San Bernardino, Cal.

- WHITEHEAD, George E. (1887), Mech. Engr., 621 Broadway, Providence, R. I.
- WHITEHURST, Herbert C. (Junior, 1908), Mgr., Evans, Almirall & Co., 10th and Byrd Sts., Richmond, Va.
- WHITHAM, Jay M. (1883), Cons. Engr., 607 Bullitt Bldg., Philadelphia, Pa.
- WHITING, Charles W. (1885; 1895), Cons. Engr., 33 Broad St., Boston, and 62 Kirkland St., Cambridge, Mass.
- WHITING, Richard A. (Junior, 1909), Instr., Exper. Engrg., Stevens Inst. of Tech., Hoboken, and *for mail*, Oradell, Bergen Co., N. J.
- WHITING, S. B. (1880), Manager, 1880-1882; Vice-President, 1882-1883; 11 Ware St., Cambridge, Mass.
- WHITLOCK, Elliott H. (1901), Asst. Factory Mgr., Natl. Carbon Co., and *for mail*, Open Hearth, Lake Ave., Cleveland, O.
- WHITNEY, Baxter D. (1886), Partner, Firm Baxter D. Whitney & Son, Winchendon, Mass.
- WHITNEY, Wm. M. (Associate, 1886), Winchendon, Mass.
- WHITON, Lucius E. (1905), Mgr. and Mech. Engr., D. E. Whiton Mch. Co., 190 Howard St., and 71 William St., New London, Conn.
- WHITTED, Thomas B. (1900; Associate, 1903), Pres., Whitted & White, Inc., 1000-1006 Realty Bldg., and 317 W. Fifth St., Charlotte, N. C.
- WHITTEMORE, D. J. (1889), Ch. Engr., C. M. & St. P. Ry., 1345 Ry. Exch., Chicago, Ill., and *for mail*, 222 Biddle St., Milwaukee, Wis.
- WHITTEMORE, Herbert L. (Junior, 1903), Lab. Applied Mech., Urbana, Ill.
- WHITTEMORE, John R. (1902), 435 E. Pedregosa St., Santa Barbara, Cal.
- WHITTIER, Chas. Robert (1909), Engr., Standard Plunger Elev. Co., 115 Broadway, New York, N. Y.
- WHITTLESEY, James Thomas (1907), Ch. Engr., Elec. Dept., Pub. Service Corp. of N. J., and *for mail*, 45 Lloyd Rd., Montclair, N. J.
- WHYTE, Frederic M. (1902), Vice-President, 1908-1910; Genl. Mech. Engr., N. Y. Central Lines, 610 Grand Central Sta., New York, and *for mail*, 14 Benedict Ave., Tarrytown, N. Y.
- WHYTE, John S. (1902), Mech. Engr., Dominion Coal Co., Ltd., Glace Bay, Cape Breton.
- WICK, Henry (Associate, 1903), 413-415 Dollar Savings & Trust Co. Bldg., Youngstown, O.
- WICKERSHAM, Nathan R. (1907), Supt., Ingersoll-Rand Co., Painted Post, and Corning, N. Y.
- WICKS, H. B. Priestley (Junior, 1908), Genl. Mgr., Elec. Dept., Scott Bros., Ltd., and *for mail*, 93 Grafton St., Linwood, Christchurch, New Zealand.
- WIDDICOMBE, R. A. (1898; 1906), V. P. and Mgr., Dixon Steam System Co., First Natl. Bank Bldg., and *for mail*, 5552 Lakewood Ave., Chicago, Ill.
- WIEHARDT, August J. (1892), Cons. Engr., Williamson Bldg., and *for mail*, 40 Warren Rd., Lakewood, Cleveland, O.

- WIELAND, Charles F. (1901), Cons. Engr., 911 Mut. Savings Bank Bldg., San Francisco, and Monte Rosa Terrace, Garber St., Berkeley, Cal.
- WIGHTMAN, D. A. (1884), Cons. Engr., Warren, R. I.
- WILBUR, Ralston T. (Associate, 1907), present address unknown.
- WILCOX, C. C. (Junior, 1905), Foreman Mch. Shop, P. O. Box 158, East Lansing, Mich.
- WILCOX, Perley Smith (Junior, 1899), Asst. Mgr., Kodak Park Wks., Eastman Kodak Co., and *for mail*, 10 Audubon St., Rochester, N. Y.
- WILCOX, Wallace J. (1891; 1893), Supt. M. P., Las Vegas & Tonahpah R. R., Las Vegas, Nev., and 817 W. 28th St., Los Angeles, Cal.
- WILDER, Clifton W. (1907), Asst. Elec. Engr., Pub. Service Commission, 154 Nassau St., New York, and *for mail*, 406 E. 21st St., Brooklyn, N. Y.
- WILDER, Stuart (Associate, 1904), V. P., and Genl. Mgr., Northern Westchester Ltg. Co., and Peekskill Ltg. & R. R. Co., and *for mail*, 14 Clinton Ave., Ossining, N. Y.
- WILDER, Sylvanus Wells (Junior, 1907), Supt., Dolphin Jute Mills, and *for mail*, 529 14th Ave., Paterson, N. J.
- WILDIN, George W. (1901), Mech. Supt., N. Y., N. H. & H. R. R., New Haven, Conn.
- WILE, Julius I. (1904; 1908), Prop., Julius I. Wile Mchy. Co., Platterville, Wis.
- WILEY, Edgar C. (1903), Cons. Engr., 914 Main St., and cor. Elmwood and Rivermont Aves., Lynchburg, Va.
- WILEY, James M. (Junior, 1909), Elec. Engr., Holly Sugar Co., and *for mail*, P. O. Box 71, Holly, Colo.
- WILEY, Wm. H. (1880), Treasurer, 1884-1910; 43-45 E. 19th St., New York, N. Y., and 73 Halstead St., East Orange, N. J.
- WILKE, William (1893), Mech. and Chem. Engr., 86 Norwood Ave., Buffalo, N. Y.
- WILKIN, John T. (1898), Mech. Engr., Connersville Blower Co., and *for mail*, 905 Grand Ave., Connersville, Ind.
- WILKINS, I. Chester G. (1899; 1908), Mech. Engr., Thompson-Starrrett Co., 51 Wall St., New York, N. Y.
- WILKINSON, Alfred (1895), Bridgeport, Montgomery Co., Pa.
- WILKINSON, Cecil Tom (Junior, 1908), Elec. Engr., Genl. Elec. Co., and State St., Schenectady, N. Y.
- WILKINSON, John (1907), Ch. Engr., H. H. Franklin Mfg. Co., and *for mail*, 211 Robinson St., Syracuse, N. Y.
- WILKINSON, Thomas L. (1894; 1905), Cons. Mech. Engr., 213 Boston Bldg., and 1110 Downing Ave., Denver, Colo.
- WILLARD, Lewis Leigh (Associate, 1907), Engr., Allis-Chalmers Co., New York, and 922 Prospect Pl., Brooklyn, N. Y.
- WILLCOX, George Bingham (Junior, 1895), Pres. and Genl. Mgr., Willcox Engr. Co., Willcox Engr. Co. Bldg., and *for mail*, 1413 Genesee Ave., Saginaw, Mich.

- WILLE, Henry Valentin (1900), Asst. to Supt., Baldwin Loco. Wks., 500 N. Broad St., and 743 Corinthian Ave., Philadelphia, Pa.
- WILLHOFFT, F. O. (Associate, 1905), Prof. Mech. Engrg., Queens Univ., and *for mail*, 93 Wellington St., Kingston, Ont., Canada.
- WILLIAMS, Alan Gillespie (Junior, 1909), 1402 Liberty St., Franklin, Pa.
- WILLIAMS, Alpheus Fuller (1900), Genl. Mgr., De Beers Cons. Mines, Ltd., and 1 Park Rd., Kimberly, Cape Colony, South Africa.
- WILLIAMS, Charles Henry (1901; 1904), Northern Colo. Power Co., 610 Mercantile Bldg., Denver, Colo.
- WILLIAMS, D. Curtis (1891), Mech. Engr., 664 Maryland Ave., Pittsburg, Pa.
- WILLIAMS, Ernest D. (Junior, 1905), Turbine Eng. Dept., Genl. Elec. Co., and *for mail*, 1306 Union St., Schenectady, N. Y.
- WILLIAMS, Franklin (Associate, 1896), Engrg. Specialties, 39 Cortlandt St., New York, N. Y.
- WILLIAMS, George W. (1904; 1907), Asst. Engr., Brill & Gardner, 1134 Marquette Bldg., and *for mail*, 365 E. 59th St., Chicago, Ill.
- WILLIAMS, Howard E. (1895; 1904), Ch. Draftsman, Calumet & Hecla Min. Co., Calumet, Mich.
- WILLIAMS, Llewellyn (1907), Supt. Engr., United Fruit Co., 131 State St., Boston, and 27 Rockland Ave., Malden, Mass.
- WILLIAMSON, Alfred (Junior, 1902), Mech. Engr., Dept. Water Supply, Gas & Elec., 13 Park Row, New York, and Pelham, N. Y.
- WILLIAMSON, George E. (Junior, 1906), Engr. of Wks., Union Metallic Cartridge Co., and 521 Laurel Ave., Bridgeport, Conn.
- WILLIAMSON, Leroy A. (Associate, 1902), 48 Custom House St., Providence, R. I.
- WILLIAMSON, Wm. C. (1882), Valley Rd. and 12th St., Oak Lane, Philadelphia, Pa.
- WILLIS, Edward J. (1895; 1896), Box 164, Richmond, Va.
- WILLISTON, Arthur L. (1896; 1899), Dir., Dept. Science and Tech., Pratt Inst., and *for mail*, 275 Clinton Ave., Brooklyn, N. Y.
- WILLISTON, Belvin Thomas (1905), Ch. Draftsman, Hancock Inspirator Co., 23 Watson St., Boston, and 3 Monmouth St., Somerville, Mass.
- WILLS, C. Harold (1909), Ch. Engr. and Factory Mgr., Ford Motor Co., and *for mail*, 39 Bethune Ave., W., Detroit, Mich.
- WILLSON, Ernest M. (Associate, 1909), Ch. Draftsman, Hart-Parr Co., and *for mail*, 601 Wisconsin St., Charles City, Ia.
- WILLSON, Frederick Newton (1883), Prof. Descr. Geom. and Tech. Drawing, Princeton Univ., and *for mail*, Box 63, Princeton, N. J.
- WILMERDING, Chas. Henry (1904), 20 Sanford Ave., Flushing, N. Y.
- WILMORE, John J. (1893), Dean, Sch. of Engrg., Ala. Poly. Inst., Auburn, Ala.
- WILNER, E. Ralph (Junior, 1903), Genl. Mgr., Manhattan Screw & Stamping Wks., West End Ave. and 67th St., and *for mail*, 133 W. 12th St., New York, N. Y.

- WILSON, Archibald H. (Associate, 1908), Asst. Ch. Draftsman, Stone & Webster Engrg. Corp., 147 Milk St., Boston, and 21 Butler St., Lawrence, Mass.
- WILSON, Birton N. (1904), Prof. Mech. Engrg., Univ. of Ark., and *for mail*, 241 College Ave., Fayetteville, Ark.
- WILSON, Clarence C. (Junior, 1900), Ch. Engr., Western Gas Eng. Co., 908 N. Main St., and 2712 Menlo Ave., Los Angeles, Cal.
- WILSON, Dwight Boyden (1908), Supt. of Power, Denver City Tramway Power Co., P. O. Box 1373, and 159 W. Second Ave., Denver Colo.
- WILSON, Geo. Samuel (Junior, 1907), Asst. Prof. Mech. Engrg., Washington Univ., Seattle, Wash.
- WILSON, Henry D. (Junior, 1903), Wilson-Snyder Mfg. Co., 2 Ross St., Pittsburg, and Thornburg, Allegheny Co., Pa.
- WILSON, Hugh H. (1907), Supt., Ontario Power Co., of Niagara Falls, and P. O. Box 4, Niagara Falls, N. Y.
- WILSON, Jacob D. (Junior, 1903), Pres., Genl. Mgr. and Mech. Engr., Am. Elev. Co., 113-115 Cedar St., New York, N. Y., and *for mail*, 430 Rockaway Ave., Boonton, N. J.
- WILSON, J. Fred. (1891), W. & S. Mfg. Co., die making and metal stamping, 9 Hunt St., and 20 Moore Ave., Worcester, Mass.
- WILSON, James Edward (1887), M. M., Natl. Lock Washer Co., Newark, N. J., and 205 W. 122d St., New York, N. Y.
- WILSON, James Wright (Associate, 1907), Salesman, Westinghouse Mch. Co., 165 Broadway, New York, and 1111 Dean St., Brooklyn, N. Y.
- WILSON, Lester G. (1903; Associate, 1907), Secy., and Mech. Engr., Jas. G. Wilson Mfg. Co., 3 W. 29th St., New York, N. Y., and *for mail*, Box 555, Norfolk, Va.
- WILSON, Nelson C. (1906), 209 9th St., Pittsburg, Pa.
- WILSON, William L. (Junior, 1907), Aluminum Co. of America, Old Colony Bldg., Chicago, and Lake Front, Ill.
- WILSON, Wm. R. (Junior, 1899), Alberger Condenser Co., 95 Liberty St., New York, and *for mail*, 224 Palisade Ave., Yonkers, N. Y.
- WINGER, Stanley D. (Junior, 1904), Sales Engr., care Green Engrg. Co., Commer. Natl. Bank Bldg., and 4447 Indiana Ave., Chicago, Ill.
- WINSHIP, James G. (1891), Internatl. Steam Pump Co., 115 Broadway, New York, and *for mail*, 1248 Pacific St., Brooklyn, N. Y.
- WINSHIP, W. E. (1908), cor. 179th St. and Ft. Washington Ave., New York, N. Y.
- WINTER, Oscar (1906), present address unknown.
- WINTERROWD, William H. (Junior, 1907), Roundhouse Foreman, Lake Shore & Mich. Southern Ry., and *for mail*, 1815 E. 19th St., Cleveland, O.
- WINTHER, Chas. A. G. (1897; 1900), Mech. Engr., Mfrs.' Agt., 170 Summer St., Boston, and 118 Highland Rd., West Somerville, Mass.
- WINTZER, Rudolph (1908), Power & Mining Mchy. Co., 115 Broadway, New York, N. Y.

- WISEWELL, Francis Henry, Jr. (Junior, 1905), 22 Broad St., and *for mail*, The Olbiston, Genesee St., Utica, N. Y.
- WISNER, George M. (1907), Ch. Engr., Sanitary Dist. of Chicago, 1500 Am. Trust Bldg., Chicago, Ill.
- WITHINGTON, Sidney (Junior, 1908), Exper. Dept., Walworth Mfg. Co., South Boston, and *for mail*, 35 Bay State Rd., Boston, Mass.
- WOLCOTT, Henry A. (1897), Mech. and Civil Engr., West Hartford, Conn.
- WOLDENBERG, Izydor (Junior, 1903), Ingersoll-Rand Co., m. b. H. Ferenecz Jozsef Rakpart 17, Budapest, Hungary, and *for mail*, Goethestrasse 3, Graz, Austria.
- WOLF, Fred. William (1904), Pres., Fred. W. Wolf Co., 827-831 Rees St., and 457 Fulerton Blvd., Chicago, Ill.
- WOLF, Otto C. (1889), Engr., Rms. 511-512, Denckla Bldg., and 1706 Master St., Philadelphia, Pa.
- WOLFF, Herbert Wm. (Junior, 1904), Ch. Mech. Engr., Am. Car & Fdy. Co., 1512 Syndicate Trust Bldg., and 5470 Delmar Blvd., St. Louis, Mo.
- WOOD, Albert Carroll (1894; 1900; 1904), Cons. Mech. Engr., Pa. Bldg., cor. 15th and Chestnut Sts., and 1317 Spruce St., Philadelphia, Pa.
- WOOD, Arthur J. (1898; 1907), Asso. Prof. Exp. Engrg., Pa. State College, and *for mail*, Allen St. and Fairmount Ave., State College, Pa.
- WOOD, Augustus (1901), Ch. Draftsman, Niles Tool Wks. Co., and *for mail*, 378 S. D St., Hamilton, O.
- WOOD, Benjamin F. (1897; 1907), Asst. Engr., M. P. Dept., Pa. R. R. Co., Altoona, and 1200 Second St., Juniata Sta., Altoona, Pa.
- WOOD, Edward R., Jr. (Junior, 1900), Sales Mgr., R. D. Wood & Co., 400 Chestnut St., and *for mail*, 245 S. 17th St., Philadelphia, Pa.
- WOOD, Erwin E. (1900), Life Member; Pres. and Genl. Mgr., Walcott & Wood Mch. Tool Co., and 755 W. Main St., Jackson, Mich.
- WOOD, Frank J. (1899), Ch. Engr., Marx & Rawolle's Glycerine Factory, 9 Van Brunt St., and *for mail*, 361 Henry St., Brooklyn, N. Y.
- WOOD, Geo. R. (1906), Cons. Elec. Engr., 1207-8 Park Bldg., Pittsburgh, Pa.
- WOOD, Henry Shotwell (1907), Cons. Engr., 1825 Park Row Bldg., New York, N. Y., and *for mail*, P. O. Box 4, Glen Ridge, N. J.
- WOOD, Kenneth F. (Associate, 1899), Supt., Sayles' Bleacheries, Saylesville, and 23 Maynard St., Pawtucket, R. I.
- WOOD, Walter (1880; 1890), R. D. Wood & Co., 400 Chestnut St., and 1620 Locust St., Philadelphia, Pa.
- WOOD, William H. (1889), Engr. and Bldr. Spec. Mch., Media, Delaware Co., Pa.
- WOODARD, Louis A. (1900; 1904), Wks. Mgr., William Tod Co., Youngstown, and Boardman, O.
- WOODBURY, C. J. H. (1880), Cons. Engr., 45 Milk St., Boston, and *for mail*, 51 Baltimore St., Lynn, Mass.

- WOODS, Frank F. (Associate, 1904), Pres. and Treas., S. A. Woods Mch. Co., Boston, Mass.
- WOODS, Samuel Hamilton (Junior, 1907), Richardson & Boynton Co., 236 Water St., and 73 W. 12th St., New York, N. Y.
- WOODWARD, Robt. S., Jr. (Junior, 1904), Cons. Engr., 2 Wall St., New York, N. Y.
- WOODWARD, Sherman Melville (1907), Prof. Hyd. and Engrg. Materials, State Univ. of Iowa, Iowa City, Ia.
- WOODWELL, Julian E. (1900; 1908), Cons. Engr., Terminal Bldg., Park Ave. and 41st St., New York, and 341 Highland Ave., Mt. Vernon, N. Y.
- WOOLLEY, Harold O. (Junior, 1909), Draftsman, Power Specialty Co., P. O. Box 92, Dansville, N. Y.
- WOOLSON, Harry Thurber (1907), Ch. Draftsman, Engrg. Dept., Gas Eng. & Power Co. and Chas. L. Seabury & Co., Cons., New York, and *for mail*, Lawton St., Lincoln Park, Yonkers, N. Y.
- WOOLSON, Ira H. (1896), Adj. Prof. Civ. Engrg., Columbia Univ., New York, N. Y.
- WOOLSON, Orosco C. (1886), Engr., Spec. on Boiler Furnaces, 26 Cortlandt St., New York, N. Y., and 239 Mt. Pleasant Ave., Newark, N. J.
- WOOLSON, Wm. D. (Associate, 1897), Treas., Jones & Lamson Mch. Co., Springfield, Vt.
- WORCESTER, H. E. (Associate, 1903), Supt., Revere Sugar Refinery, East Cambridge, and *for mail*, 10 Kirkland Rd., Cambridge, Mass.
- WORDEN, Euclid P. (1899; 1902), Ch. Engr., Fred. M. Prescott Steam Pump Co., and 571 Summit Ave., Milwaukee, Wis.
- WORTH, Charles C. (1908), Asst. Supt. Constr., N. Y. Edison Co., 55 Duane St., New York, N. Y.
- WORTHINGTON, Charles C. (1882), Manager, 1883-1886; Manwalamink, Shawnee-on-Delaware, Pa.
- WRAITH, William (1903), Supt., Washoe Smelter, P. O. Box 93, and 619 Main St., Anaconda, Mont.
- WRIGHT, Calvin Shelor (Junior, 1907), Supt., Echota Cotton Mills, Calhoun, Ga.
- WRIGHT, Ernest N. (1890), Cons. Engr., 691 Huntington Terrace, Pasadena, Cal.
- WRIGHT, James Knox (1894), Cons. Engr. and Mfr., Wright's Pat. Safety Stop, 136 Liberty St., and 94 Hamilton Pl., New York, N. Y.
- WRIGHT, Reginald A. (1907), Ch. Draftsman, Phila. & Reading Coal & Iron Co., and *for mail*, 7 S. Sixth St., Pottsville, Pa.
- WRIGHT, Roydon V. (1907), Managing Editor, American Engineer and Railroad Journal, 140 Nassau St., New York, N. Y., and *for mail*, 285 N. 20th St., East Orange, N. J.
- WRIGHT, Wm. Quinby (1908), Min. Engr., 24 California St., San Francisco, and Sansalito, Cal.
- WUERFEL, Geo. D. (1908), Member of Firm, Wuerfel & Miggett, Cons. and Mech. Engrs., 1125 Ohio Bldg., Toledo, O.
- WURTS, Edward Vanuxem (Associate, 1897), Mech. Engr., United Engrg. & Fdy. Co., and *for mail*, 622 Kirtland St., Pittsburg, Pa.

- WYCKOFF, Arcalous W. (Junior, 1897), Pres., A. W. Wyckoff Co., 2323-24 Farmers' Bank Bldg., and 328 Morewood Ave., Pittsburg, Pa.
- WYER, Samuel S. (Junior, 1904), Mech. Engr., Harrison Bldg., Columbus, O.
- WYMAN, Arthur H. (Junior, 1909), Sales Engr., Allis-Chalmers Co., 1411 Schofield Bldg., and 1780 E. 56th St., Cleveland, O.
- WYMAN, Horace (1892), Cons. Engr., 20 Harvard St., Worcester, Mass.
- WYNKOOP, Hubert S. (1908), Elec. Engr., Dept. Water Supply, Gas and Elec., 13-21 Park Row, New York, and *for mail*, 1574 50th St., Brooklyn, N. Y.
- YARNALL, D. Robert (Junior, 1903), Mech. Engr., 316 Preston St., Philadelphia, Pa.
- YARYAN, Edward B. (Junior, 1903), Supt., Yaryan Naval Stores Co., 513 Gardner Bldg., and 308 W. Bancroft St., Toledo, O.
- YARYAN, Homer T. (1892), V. P., Yaryan Naval Stores Co., 513 Gardner Bldg., Toledo, O.
- YATES, Richard Llewellyn (Junior, 1907), Ch. Draftsman, Water-wheel and Turbine Pump Dept., Platt Iron Wks Co., and *for mail*, 108 Oxford Ave., Dayton, O.
- YAWGER, Edwin (Associate, 1899), Westinghouse Mch. Co., East Pittsburg, and Edgewood Park, Pa.
- YEREANCE, William B. (1894), Cons. Engr., Rm. 1201, 128 Broadway, New York, N. Y., and 418 Center St., South Orange, N. J.
- YONT, Charles A. (1900), Mech. Engr., Box 165, Denver, Colo.
- YORK, H. W. (1894), Cons. Engr., Am. Smelting & Refining Co., 165 Broadway, New York, and 121 Bay 26th St., Bensonhurst, L. I., N. Y.
- YORK, L. D. (1889), Portsmouth, O.
- YORK, Robert (1901; Associate, 1908), V. P., York Lumber & Mfg. Co., Memphis, Tenn.
- YOUNG, Chas. D. (Junior, 1902), Asst. Engr. of M. P., Pa. Lines West of Pittsburg, Rm. 716, New First Natl. Bank Bldg., and 644 Franklin Ave., Columbus, O.
- YOUNG, E. R. (Junior, 1900), Draftsman, Garrett-Cromwell Engrg. Co., and *for mail*, 484 E. 105th St., Cleveland, O.
- YOUNG, Gilbert A. (1906), Asst. Prof. Mech. Engrg., Purdue Univ., 409 University Ave., West Lafayette, Ind., and *for mail*, West Gate, 11 Everett St., Cambridge, Mass.
- YOUNG, John M. (Junior, 1902), Dean of Engrg., College of Hawaii, Honolulu, Hawaii.
- YOUNG, John P. (1899; 1906), Genl. Mgr., Youngstown Car Mfg. Co., Youngstown, O.
- YOUNG, John T. (1900; 1908), Genl. Mgr., Muskegon Traction & Ltg. Co., and 95 Jefferson St., Muskegon, Mich.
- YOUNG, Walter D. (1900), Cons. Elec. and Mech. Engr., 237 Fulton St., New York, N. Y., and 530-532 N. Calvert St., and *for mail*, 309 Oakdale Rd., Roland Park, Baltimore, Md.
- YOUNG, William A. (1901; 1905; 1906), 522 S. Arch St., Alliance, O.

- ZAPP, Louis M. (Junior, 1906), A. L. Drum & Co., 624 Am. Trust Bldg., and 1447 E. 66th St., Chicago, Ill.
- ZEHNDER, Chas. H. (1890), Pres., Austen Coal & Coke Co., 140 Cedar St., New York, N. Y., and Allenhurst, N. J.
- ZIMMERMAN, Oliver B. (1905), Mech. Engr. and Ch. Draftsman, M. Rumely Co., and *for mail*, 1204 Clay St., La Porte, Ind.
- ZIMMERMAN, W. H. (Junior, 1902), Genl. Mgr., Mich. Power Co., and *for mail*, 414 Grand Ave., S., Lansing, Mich.
- ZIMMERMANN, John Edward (Junior, 1907), Member of Firm, Dodge & Day, 608 Chestnut St., Philadelphia, and Willow Grove, Pa.
- ZIMMERMANN, Wm. F. (1884), Cons. Engr., The Wellington, Spokane, Wash.
- ZOHE, Ludwig A. (1903; 1904), Solvay Process Co., and *for mail*, 113 Cayuga St., Syracuse, N. Y.

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Cory, Harry Thomas, Asst. to Pres. Cananea, Yaqui River & Pacific R. R.; also Genl. Mgr., La Sociedad de Irrigacion y Terrenos de la Baja Cal., Mexicali, Lower Cal., Mexico; also Berkeley, Cal.
Goodrich, Robert R., Prof. Metallurgy, Univ. of Ariz.

In this list the business title and address are given, so far as these are known. In every case a mailing address is provided, if one is available. Names appear only once; when a second address is mentioned it will be found more fully in the Alphabetical List.

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Clark, Herbert Hamilton, Mgr., Chas. C. Moore & Co., Engrs., 321 L. A. Trust Bldg.

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MARE ISLAND.—Hardy, C. E., Asst. Shop Supt., Mfg. Dept., U. S. Navy Yard.

MARYSVILLE.—Miller, John S., Traveling Engr. and Sales Mgr., Yuba Constr. Co.

OAKLAND.—Brown, John Quincy, Asst. Genl. Mgr. and Engr., Oakland Traction Co., and San Francisco, Oakland & San José Ry.

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Whiteford, James F., Betterment Supervisor, A. T. & S. F. R. R.

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SAN FRANCISCO.—Atkins, David Fowler, Insp. Mech. and Elec. Engr., U. S. Post Office and Court House.

Aué, Jos. E., Pacific Gas & Elec. Co., Bayshore Dist.

Baum, Frank G., Cons. Elec. and Hyd. Engr., 1404 Chronicle Bldg.

Braun, Carl F., Mgr., Standard Engrg. Co., 503 Market St.

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Cattell, William A., Cons. Engr., Foxcroft Bldg.

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Doble, Wm. A., Pres., Abner Doble Co., Fremont and Howard Sts.

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 Eckart, W. R., Cons. Engr., 3014 Clay St.
 Forsyth, Robert, Cons. Engr., 1020 Merchant Exch.
 Henes, Louis G., Mgr., Manning, Maxwell & Moore, Inc., Mgr.,
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 Holt, Charles Parker, V. P., Holt Mfg. Co., and V. P., Holt Bros.
 Co., 304 Balboa Bldg.
 Hopps, John Herbert, Cons. Engr., 503 Market St.
 Hudson, Robt. Allan, Partner, Hunter & Hudson, Engrs., 746
 Monadnock Bldg.
 Hunt, Andrew M., Cons. Engr., Union Trust Bldg.
 Johnson, Louis L., Gas Engr., Elec. Dept., Southern Pacific Co.,
 Rm. 1110, Flood Bldg.
 Johnson, Paul F., Monadnock Bldg.
 Jones, Edward C., Ch. Engr., Gas Dept., Cal. Gas & Elec. Corp.,
 and San Francisco Gas & Elec. Co., 445 Sutter St.
 Kraus, Julius, Pelton Water Wheel Co.
 Lardner, Henry A., Mgr., J. G. White & Co., Inc., Alaska-Comer.
 Bldg.
 Lee, Francis V. T., Asst. Genl. Mgr., Pacific Gas & Elec. Co.,
 445 Sutter St.
 Leland, Wm. Emmons, Cons. Engr., 939 Merchants Exch.
 Libby, Malcolm M., 604 Mission St.
 Moore, R. S., Prop., Moore & Scott Iron Wks., Main and Howard
 Sts.
 Morrin, Thos., Cons. Mech. Engr., Balboa Bldg.
 Naphtaly, Sam L., Genl. Supt., City Elec. Co., 347 Grant Ave.
 Noble, Patrick, Pres., Pacific Rolling Mill Co., 908 Crocker Bldg.
 Norbom, John O., Min. Engr., 521-522 Sheldon Bldg.
 Noyes, Wm. S., Min. Engr., 819 Mills Bldg.
 Paine, Henry E., Mgr., Elec. Dept., Hughson & Merton, Inc., 438
 Market St.
 Percy, Earl N., Engr., Imperial Gas. Eng. Co.
 Rix, Edward Austin, Pres. and Mgr., Rix Compressed Air & Drill
 Co., 371 Market St.
 Rouvel, George William, Genl. Supt., Santa Cruz Portland Cement
 Co., Crocker Bldg.
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 Sprado, Ralph, Ch. Engr., Dow Pumping Eng. Co.
 Stillman, Howard, Mech. Engr. and Engr. of Tests, South Pacific
 Co., 1180 Flood Bldg.
 Stut, John C. H., Cons. Mech. Engr., 417 Montgomery St.
 Terwilliger, Harry L., Sales Mgr., Harron, Rickard & McCone,
 139-149 Townsend St.
 Varney, Frank Hastings, Engr., Pacific Gas & Elec. Co.
 Weymouth, Clarence R., Mech. Engr., in charge Engrg. Dept.,
 Chas. C. Moore & Co., Engrs., 99 First St.
 Wheeler, Frank R., Mgr., C. H. Wheeler Mfg. Co., Vacuum Engrg.
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- SANTA BARBARA.—Whittemore, John R., 435 E. Pedregosa St.

SELBY.—Elliott, Elmer G., Constr. Engr., Selby Smelting & Lead Co.

STANFORD UNIV. P. O.—Ryan, Harris J., Prof. Elec. Engrg., Leland Stanford, Jr., Univ.

Durand, Wm. F., Prof. Mech. Engrg., Stanford Univ.

Eckart, W. R., Jr., Asso. Prof. Mech. Engrg., Stanford Univ.

COLORADO

BOULDER.—McArthur, Alonzo W.

Wallace, Jacob H., Mech. Engr., J. P. Karns Tunneling Mch. Co., Mercantile Trust & Bank Co. Bldg.

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Bayle, Emile J., Genl. Engr., Am. Beet Sugar Co.

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Hampson, C. M., Pres., Hampson-Fielding Engrg. Co., 1711 Tremont St.

Hutchinson, Arthur H., C. W. Kettering Mercantile Co., 1617 Wazee St.

Knoop, Theo. M., Mine & Smelter Supply Co., 17th and Blake Sts.

Krebs, A. Sonnin, Mech. Engr., 1368 Gilpin St.

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Newbury, George K., Secy. and Treas., Newbury Mchy. Co., 304 Century Bldg.

Searing, Lewis, V. P. and Genl. Mgr., Denver Engrg. Wks. Co.

Sethman, George H., Mech. and Elec. Engr., 125 E. 11th Ave.

Shepard, Frank E., Pres. and Mech. Engr., Denver Engrg. Wks., 30th and Blake Sts.

Stearns, Thomas B., Mining and Mech. Engr., 1720 California St.

Thomas, David G., Ch. Engr., Denver Union Water Co.

Van Buskirk, Henry C., Supt. M. P., Colo. & Southern Ry.

Walker, Thomas C., Pres., Walker Mfg. Co., 2156 15th St.

Wilkinson, Thomas L., Cons. Mech. Engr., 213 Boston Bldg.

Williams, Charles Henry, Northern Colo. Power Co., 610 Mercantile Bldg.

Wilson, Dwight Boyden, Supt. of Power, Denver City Tramway Power Co., P. O. Box 1373.

Yont, Charles A., Mech. Engr., Box 165.

ELDORA.—Lewis, John Ernest.

FORT COLLINS.—Lawrence, J. W., Prof. Mech. Engrg., State Agri. College.

HOLLY.—Wiley, James M., Elec. Engr., Holly Sugar Co.

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McKenna, Jacob Bowman, Mgr., Minnequa Wks., Colorado Fuel & Iron Co.

ROCKY FORD.—Taddiken, J. F., Jr., Am. Beet Sugar Co.

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Rogers, Winfield S., Pres., Bantam Anti-Friction Co.

BETHEL.—Dauchy, Samuel Edwin.

BRANFORD.—Hammer, Alfred E., Treas. and Genl. Mgr., Malleable Iron Fittings Co.

BRIDGEPORT.—Brewer, Arthur, Supt. of Plant, Bridgeport Brass Co.

Bullard, Dudley Brewster, Mech. Engr. and Supt., Bullard Mch. Tool Co.

Card, Frederick M., Mech. Engr., Singer Mfg. Co.

Clark, Walter R., Mech. Engr., Bridgeport Brass Co.

Fletcher, E. Leslie, Court Exch.

Kingsbury, J. G., Pres. and Treas., Grant Mfg. & Mch. Co., 90 Silliman Ave.

Lake, Simon, Pres., Lake Torpedo Boat Co.

Larkin, Everett P., Bridgeport Brass Co.

Leach, William H., Jr., Head, Dept. of Tests, Union Metallic Cartridge Co.

McElroy, Jos. A., McElroy Bros.

Millett, Kenneth B., Factory Supt., Protal Co.

Moore, Harold T., Production Engr., Bridgeport Brass Co.

Riker, Andrew L., V. P., Locomobile Co. of Am.

Staples, H. A., Foreman Tube Mill, Bridgeport Brass Co.

Thomas, George Carlyle, Engr., Singer Mfg. Co., Factory No. 10.

Webster, William Reuben, Genl. Supt., Bridgeport Brass Co.

White, Everett H., Mech. Engr., Plants 1 and 2, Crane Valve Co.

Williamson, George E., Engr. of Wks., Union Metallic Cartridge Co.

BRISTOL.—Greene, Augustine E., Mech. Engr., New Departure Mfg. Co.

Hill, Reuben, Factory Mgr., Bristol Engrg. Corp.

Hodge, Geo. O., Bristol Engrg. Corp.

CLINTON.—Krummel, Louis C., M. E., Cons. Engr., Rosemead Villa.

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Billings, Charles E., Pres. and Genl. Mgr., Billings & Spencer Co.

Billings, Frederic C., V. P. and Supt., Billings & Spencer Co.

Bond, Geo. M., Mech. Engr., 141 Washington St.

Coleman, Albert Edward, Plant Engr., Pratt & Whitney Co., 3 Bigelow St.

Cook, Asa S., Colt's West Armory.

Darlington, Philip J., The Roto Co., P. O. Box 1043.

Ehbets, C. J., Mech. Engr. and Pat. Expt., Colt's Pat. Fire Arms Mfg. Co.

Gilmour, George, Ch. Engr., Travelers Ins. Co.

Grohmann, Carl L., Mech. Engr., Pratt & Whitney Co.

Hanson, B. M. W., Wks. Mgr., Pratt & Whitney Co.

Honiss, William Henry, Mech. Engr., and Solicitor of Patents, 315 Pearl St.

Howard, Charles P., Pres., James L. Howard & Co.

Hunter, J. S., 15 Washington St.

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 Lewis, Joseph E., Treas., Bush Mfg. Co.
 Loomis, Burdett, Jr., Conn. Mut. Bldg.
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 Luther, Flavel Sweeten, Pres., Trinity College.
 Lyman, Dwight E., Supt., Asa S. Cook Co., Colts' West Armory.
 Merritt, Joseph, Cons. and Constr. Mech. Engr., 315 Pearl St.
 Murphy, Edward J., M. E. and Cons. Engr., Hartford Steam Boiler Insp. & Ins. Co.
 Newton, Charles E., Treas., Jewell Belting Co., 53 Trumbull St.
 Peard, James J., Supt., Colts' Pat. Fire Arms Mfg Co.
 Perkins, Thomas C., Banker, Conn. Mut. Bldg.
 Quint, Alanson D., Mgr., Turret Drill Co., 12 Wells St.
 Rice, Charles De Los, Genl. Supt., 581 Capitol Ave.
 Rossberg, Chas. Andrew, Ch. Draftsman, Veeder Mfg. Co.
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 Townsend, Harry P., Secy., H. P. Townsend Mfg. Co.; also Cons. Engr., E. J. Manville Mch. Co., Waterbury.
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 Burgess, Chas. Munroe, 358 W. Main St.
 Fletcher, James R., 80 Russell St.
 Hart, Howard S., Pres., Hart & Cooley Co.
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 Bigelow, Frank L., Pres., The Bigelow Co.
 Boyer, Frederic Quintard, 216 Orchard St.
 Breckenridge, L. P., Prof. Mech. Engrg., Sheffield Scientific Sch., 406 Humphrey St.
 Brewer, Henry, Mgr., Cartridge Dept., Winchester Repeating Arms Co.
 Dubois, A. Jay, Prof. Civil Engrg., Sheffield Scientific Sch., Yale Univ.
 Henney, John, Duncan Hall.
 Jeter, Sherwood F., Mech. Engr., The Bigelow Co.
 Knous, Franklin F., 265 Bassett St.
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 MacArthur, Robert, Jr., Supt. M. P., Sargent & Co.
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NEW HAVEN (Continued)

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Murphy, John Killam, Winchester Repeating Arms Co.

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Penney, Rupert L., Testing Engr., Winchester Repeating Arms Co.

Roe, Joseph W., Instr., Sheffield Scientific Sch., Yale Univ.

Richards, Charles B., Prof. Emeritus, Mech. Engrg., Yale Univ.

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Hill, Ebenezer, Jr., Secy. and Supt., Norwalk Iron Wks. Co.

Jennings, Irving Callender, Nash Engrg. Co., 40 Water St.

Mathews, William Edwin, Supr., Inspection and Tests, Norwalk Iron Wks. Co.

STAMFORD.—Arnold, G. L. H., P. O. Box 1.

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Leland, George B., Supt., Stamford Gas & Elec. Co., 11 Bank St.

Lewis, Rollin C., Asst. Supt., Bank Lock Dept., Yale & Towne Mfg. Co.

McBride, James, Stamford Mfg. Co.

Taylor, Warren H., Supt., Bank Lock Dept., Yale & Towne Mfg. Co.

Towne, Henry R., Pres., Yale & Towne Mfg. Co.

Weber, Geo. A., 71 Courtland Ave.

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Norton, Wendell P., Supt., Hendey Mch. Co.

WATERBURY.—Alexander, Louis Albion, Genl. Store Keeper, Genl. Supt.'s Office, Am. Brass Co.

Bristol, Wm. H., Pres., The Bristol Co.

Bronson, Edward L., M. M., Shoe Hardware Co.

Campbell, Andrew C., Secy. and Supt., E. J. Manville Mch. Co., 574 E. Main St.

Castle, John Samuel Parsons, Ch. Engr., Benedict & Burham Mfg. Co.

De Lancey, Darragh, Wks. Mgr., Waterbury Buckle Co.

Goss, Edward O., Asst. Treas., Scovill Mfg. Co.

Isbell, Howard L., Asst. Ch. Engr., Am. Brass Co.

Johnson, Edward Willis, 70 Chestnut Ave.

Lepper, John G., Cons. Engr., P. O. Box 547.

WATERBURY (Continued)

Rowbottom, George, Pres., Rowbottom Mch. Co.

Sanderson, E. S., care Scovill Mfg. Co.

Summey, David Long, Mech. Engr., Chase Rolling Mill Co.

Thompson, Hugh L.

WEST HARTFORD.—Neilson, Frederick C., P. O. Box 472.

Wolcott, Henry A., Mech. and Civ. Engr.

WILLIMANTIC.—Slade, Foster C., Willimantic Gas & Elec. Ltg. Co.**WINDSOR LOCKS.**—Horton, S. Ellsworth, Pres., E. Horton Mch. Co., and Eastern Rep., Bardons & Oliver, of Cleveland, O.**DELAWARE****EDGE MOOR.**—Girvin, Chas. J., Supt., Edge Moor Iron Co.**WILMINGTON.**—Betts, Alfred, 906 Adams St.

De Cazenove, Louis A., Jr., Mech. Engr., Engrg. Div., E. I. du Pont de Nemours Powder Co.

Du Pont, Coleman, Pres., E. I. du Pont de Nemours Powder Co.

Forge, J. Edmonds, Light, Heat and Power Div., E. I. du Pont de Nemours Powder Co., 703 du Pont Bldg.

Fulenwider, Henry L., Cons. Engr., Equitable Bldg.

Hazard, Vincent G., Designer of Paper Mchy., Pusey & Jones Co.

Jordan, Wm. Allen, Chas. Warner Co.

Moreton, George Wm., Genl. Supt., Betts Mch. Co.

Moxham, Egbert, Mgr., Pulp Key Dept., E. I. du Pont de Nemours Co.

Pusey, Charles W., Insp. Engr., Pusey & Jones Co.

Savery, Thomas H., Pres., Harpers Ferry Paper Co., Shenandoah Pulp Co., Denver Portland Cement Co., and Harper's Ferry Elec. Light & Power Co.

Smith, Edward Jos., Mech. Engr., Pusey & Jones Co.; also Allentown, Pa.

Smith, Robert W., V. P., Hilles & Jones Co.

Spruance, Wm. C., Jr., du Pont Bldg.

Tallman, Frank G., Dir. of Purchases, E. I. du Pont de Nemours Powder Co., du Pont Bldg.

Trump, Charles N., Pres., Trump Bros. Mch Co.

Van Trump, Charles R., 1318 W. 13th St.

DISTRICT OF COLUMBIA**WASHINGTON.**—Ayres, Gustav, Pat. Atty. and Cons. Engr., 1110 F St., N. W.

Buckler, Albert H., 16 Third St., S. E

Burgoon, Charles Eli, Asst. Insp. Engr., Isthmian Canal Com.

Coombs, Howard A., Pat. Atty. and Expt., 316-317 McGill Bldg.

Dillard, James B., Capt. Ordnance Dept., U. S. A. War Dept.

Doying, William Albert E., Insp. Engr., Isthmian Canal Com., Mills Bldg. Annex.

Foster, Chas. E., Lawyer, 908 G St.

Gillis, H. A., Mech. Engr., Home Life Bldg.

Hollerith, Herman, 1054 31st St.

Holmes, Joseph Austin, Expt. in Charge Tech. Branch, U. S. Geolog. Survey.

Hurley, Daniel, Cons. Engr., 1329 11th St., N. W.; also Providence, R. I.

Jakobsson, Herman G., Ordnance Designer, Rm. 135, Bureau of Ordnance, War Dept.

WASHINGTON (Continued)

- Johnson, Arthur E., Designer, Ordnance Office, War Dept.
 King, Frank B., Cons. Marine Engr. and Naval Arch., 1442 Rhode Island Ave.
 Knight, Hervey S., Pat. Lawyer and Expt., McGill Bldg.
 McFarland, Walter Ashfield, Supt., Water Dept., District Bldg.
 Metz, Walter R., Supt. of Bldgs., Govt. Ptg. Office.
 Morton, Geo. L., Prin. Examiner, Instruments of Precision, Rm. 264, U. S. Pat. Office.
 Norton, Harold P., Commander U. S. N., Bureau of Steam Engrg., Navy Department.
 Pollard, Willard Lacy, Asst. Examiner, Pat. Office, Div. 39.
 Powell, John Edgar, Ch. Mech. and Elec. Engr., Office of Supv. Arch., Treas. Dept.
 Raynal, Alfred H., Mech. Engr., Bureau of Steam Engrg., Navy Dept.
 Ridgely, William Barret, 1908 Q St.
 Rowley, Harry Wm., Allis-Chalmers Co., 912 Evans Bldg.
 Schoenborn, W. E., Solic. of Patents, Expt. in Pat. Causes, McGill Bldg., 908-912 G St., N. W.
 Simpson, George R., Prin. Examiner in Charge Ry. and Rolling Stock Div., Rm. 304, U. S. Pat. Office.
 Sponsler, Charles Fred'k, Ch. Engr., Bureau of Standards, Dept. Commerce and Labor.
 Talcott, Robt. Barnard, Asst. Ch. Mech. and Elec. Engr., Office Supr. Arch., Treas. Dept.
 Thompson, Edward P., M. E., Registered Pat. Atty. and Cons. Engr., 1371 Columbia Rd.
 Upton, William Bayly, Cons. Engr., Wash. Loan & Trust Bldg., 902 F St., N. W., Cleveland Park.
 Wheeler, Chas. Van Cise, Supt., Projectile Dept., Firth-Sterling Steel Co., P. O. Box 812.
 Wheeler, Earl, Elec. and Mech. Engr., Elec. Speedometer & Dynamometer Mfg. Co., 1317 N. Y. Ave.

GEORGIA

- ATHENS.—Hodgson, Walter B., Empire State Chem. Co.
 ATLANTA.—Anderson, Harry Warfield, Anderson-Kent Co., 1030 Candler Bldg.
 Bertsch, John Charles, Cons. Engr., 228 Brown-Randolph Bldg.
 Coon, J. S., Prof. Mech. Engrg., Prof. Drawing, Supt. of Shops, Sch. of Tech.
 Davidson, Archer, Dist. Engr., Westinghouse Mch. Co., 1326 Candler Bldg.
 Fennell, Benjamin C., Contr. Engr., Empire Bldg.
 Hillyer, George, Jr., Mgr., Am. Radiator Co., Candler Bldg.
 Holmes, Andrew A., Pres. and Treas., Hancock, Holmes Fdy. Mch. Wks., P. O. Box 461.
 McGwire, Charles H., Inspr., U. S. P. O.
 Neely, Frank H., Industrial Engr., 70 Madison Ave.
 Neely, Fred L., Allis-Chalmers Co., Fourth Natl. Bank Bldg.
 Pitkin, Joseph Lovell, Southern Rep., A. Klipstein & Co., 1622 Candler Bldg.
 Scales, Henry Jackson, 48 Forrest Ave.
 Scott, Earl Francis, Mech. Engr., in Charge Engr. Dept., Atlanta Office, Genl. Fire Extinguisher Co., 276 Marietta St.

CALHOUN.—Wright, Calvin Shelor, Supt., Echota Cotton Mills.

MACON.—Jackson, Percy, P. O. Box 193.

Porter, John A., Genl. Supt., Bibb Mfg. Co.

PORTERDALE.—Porter, O. S., Agt., Bibb Mfg. Co., Porterdale Mill.

SAVANNAH.—Gaines, Frederic F., Supt. Motive Power, Central R. R. of Ga.

HAWAII

HONOLULU.—Haney, James Briggs, U. S. Engr. Office, McCandless Bldg.

Hedemann, Christian J., Mgr., Honolulu Iron Wks. Co., P. O. Box 228.

Young, John M., Dean of Engrg., College of Hawaii.

IDAHO

BOISE.—Burton, J. Harry, Carlson Lusk Hardware Co.

GOODING, LINCOLN CO.—Cummings, Edgar C.

ILLINOIS

ALTON.—Appleton, Thomas, Supt. of Constr., U. S. Pub. Bldgs.

AURORA.—Dull, Raymond Wm., Ch. Engr. and Supt., Stephens-Adamson Mfg. Co.

McClatchey, A. F., 132 N. Fourth St.

MacGill, Chas. Frederick, P. O. Box 134.

CARTERVILLE.—Richart, Fred W., Pres. and Mgr., Interurban Elec. Co.

CHAMPAIGN.—Henes, Harry Wm., 307 E. Green St.

CHICAGO.—Abbott, William L., Ch. Operating Engr., Commonwealth Edison Co., 139 Adams St.

Akerlind, G. A., Cons. Engr., 664 Monadnock Bldg.

Allen, Henry Asa, Pres., Henry A. Allen & Co., 1431 First Natl. Bank Bldg.

Ames, Joseph H., Ch. Engr., Am. Car & Fdy. Co., 412 Ry. Exch.

Angus, Joseph Johnson, Mech. Engr., 3226 Carroll Ave.

Baehr, William Alfred, 1943 Commer. Natl. Bank Bldg.

Baldwin, C. Kemble, Ch. Engr., Robins Conveying Belt Co., 1040 Old Colony Bldg.

Barbieri, Caesar, Cons. Mech. Engr., 120 Sherman St.

Barnes, Charles B., Mech. Engr., Holabird & Roche, Archts., Monadnock Bldg.

Batten, Percy H., 303 Ry. Exch. Bldg.

Bement, A., Cons. Engr., 2114 Fisher Bldg.

Bird, Paul P., Ch. Smoke Insp., Dept. Smoke Insp., City of Chicago.

Birdsey, Charles Robt., Ch. Engr., U. S. Gypsum Co., 200 Monroe St.

Black, Edward S., Mech. Engr., 1407 Ry. Exch. Bldg.

Blake, Clinton F., 122 Ashland Blvd.

Blauvelt, Albert, Mgr., Western Factory Ins. Asso., N. Y. Life Bldg., 171 La Salle St.

Bogardus, Henry A., Henry A. Bogardus & Co., 159 W. Huron St.

Bourne, George L., V. P., Ry. Materials Co., 1515 Old Colony Bldg.

Bowen, Harrison Seba, Mech. Engr., R. W. Hunt & Co., 1121 Rookery Bldg.

CHICAGO (Continued)

- Bower, J. G., Sales Agt., Pressed Steel Car Co., 1475 Old Colony Bldg.
- Bradshaw, Grant D., Cons. Engr., 77 Jackson Blvd.
- Branch, Joseph G., Pres., Branch Pub. Co., 46 Van Buren St.
- Brill, Geo. M., Mech., Elec. and Arch. Engr., 1134-5 Marquette Bldg.
- Bronaugh, Will Logan, Mgr., Iroquois Engrg. Co., 1211 Fisher Bldg.
- Buck, W. F., Supt., M. P., A. T. & S. F. Ry., Ry. Exch.
- Byllesby, H. M., Pres., H. M. Byllesby & Co., Am. Trust Bldg.
- Campbell, Gordon M., Supt., Power Apparatus Shops, Western Elec. Co.
- Carter, Henry W., Mech. Expert, 635 Monadnock Block.
- Chalmers, William J., Pres., Commer. Natl. Safe Deposit Co., 1733 Commer. Natl. Bank Bldg.
- Chamberlain, Geo. E., Pres., Lowell Mfg. Co., 1402 Mich. Ave.
- Chamberlain, Paul Mellen, Cons. Engr., 1522 Marquette Bldg.
- Charter, James Adams, Mech. Engr., Austin Mfg. Co.
- Christensen, Chris. C., Estimating Engr., Allis-Chalmers Co.
- Clifford, Oliver Chas., Dept. of Physics, Armour Inst. Tech., 33d and Armour Ave.
- Coes, Harold V. O., Plant Engr., and Asst. to Pres., Liquid Carbonic Co., 440 Wells St.
- Cushman, Arthur Wesley, Div. Supt., Swift & Co.
- De Puy, C. E., Prof. Mch. Design and Constr., Lewis Inst.
- DeWolfe, Edwd. Chas., Member of Russell-DeWolfe Co., 355 Dearborn St.
- Dingee, W. W., Ret. Mech. Engr., 5811 Madison Ave.
- Easthope, Joseph, M. M., Ill. Steel Co.'s South Wks.
- Ellicott, Edw. Beach, Elec. Engr., Sanitary Dist. of Chicago, 1500 Am. Trust Bldg.
- Elliott, W. E., Suptg. Engr., Goodrich Transit Co.
- Elmes, Chas. W., Pres., Chas. F. Elmes Engrg. Wks., Morgan and Fulton Sts.
- Emrie, Almon, Genl. Supt., Link-Belt Co.
- Ericson, John Ernst, City Engr., City of Chicago, 4627 Kenmore Ave.
- Ewen, John Meiggs, Cons. Engr., Pres., John M. Ewen Co., Engrs. and Bldrs., 525 Rookery Bldg.
- Fergus, William L., W. L. Fergus & Co., Cons. Engrs., 1509 Fisher Bldg.
- Fingal, Chas. A., Hansell-Elcock Co., 23d St. and Archer Ave.
- Fitch, Alfred Lyon, Asst. Supt., Union Wire Mattress Co., Blackhawk St. and Cherry Ave.
- Fitch, Claude E., Mech. Engr., 1435 First Natl. Bank Bldg.
- Flinn, Charles Forrest, Mech. Engr., 570 Old Colony Bldg.
- Forsyth, Robert, Cons. Engr., 1159 Rookery Bldg.
- Forsyth, William, Mech. Engr., Railroad Age Gazette, 303 Dearborn St.
- Foster, Charles F., 416 W. Indiana St.
- Fraser, Norman D., Pres., Chicago Portland Cement Co., 108 La Salle St.
- Frith, Arthur J., Assoc. Prof. Mech. Engrg., Armour Inst. of Tech., 33d and Armour Aves.
- Gardner, H. C., Brill & Gardner, Cons. Engrs., 1134 Marquette Bldg.
- Gates, Philetus W., Rm. 920, 209 State St.

CHICAGO (Continued)

- Gay, Harry, A. L. Drum & Co., 624 Am. Trust Bldg.
 Gebhardt, George F., Prof. Mech. Engrg., Armour Inst. of Tech.
 Gifford, Byron T., Ch. Engr., Central Sta. Engrg. Co., 407 First Natl. Bank Bldg.
 Gifford, Robt. L., Pres., Illinois Engrg. Co., Monadnock Bldg.
 Goetz, Fred W., Secy., Goetz & Flodin Mfg. Co., Clybourn Ave. and Willow St.
 Graver, Alexander M., Mech. Engr., Wm. Graver Tank Wks. of East Chicago, Ind., and 7211 Yale Ave.
 Green, Wm. O., Member of Firm, Ogden, Sheldon & Co., 34 Clark St.
 Hagar, Edw. McKim, Pres., Universal Portland Cement Co., 115 Adams St.
 Hamilton, Alex. K., Pres., M. H. Treadwell Co. of Ill., 510 Commer. Natl. Bank Bldg.
 Hawley, Wm. Parker, Instr. Mech. Drawing, Lewis Inst.
 Heald, George W., 7546 Eggleston Ave.
 Heaton, Herman C., Mech. Engr., Sargent & Lundy, Ry. Exch.
 Hecht, Julius Lawrence, Mech. Engr., North Shore Elec. Co., Rm. 1001, 205 La Salle St.
 Hendee, Edward Thomas, Mgr., Mchy. Dept., Joseph T. Ryerson & Son.
 Hewlings, Andrew J., Mgr., Catalogue Dept., The Crane Co., 1214 S. Canal St.
 Hobert, Stephen G., Cons. Engr., 172 Washington St.
 Holcomb, A. Elton, V. P. and Mgr., Earth-Moving Mchy. Co., 4005 W. Madison St.
 Horton, William H., Mech. Engr., Constr. Dept., Swift & Co.
 Humphrey, Clifford Wayne, Cons. and Designing Engr., 618 Rookery Bldg.
 Hunt, Robert W., Robert W. Hunt & Co., Insp. and Cons. Engr., 1121 Rookery Bldg.
 Jackson, Wm. B., D. C. & Wm. B. Jackson, Cons. Engrs., 508 Commer. Natl. Bank Bldg.; also Boston, Mass.
 Jones, Harold C., Salesman, 1105 First Natl. Bank Bldg.
 Jones, W. Clyde, Lawyer, Genl. and Pat. Law, Rm. 1610, 134 Monroe St.; also 2 Rector St., New York, N. Y.
 Keil, Gustave B., M. M., Federal Elec. Co., Lake and Desplaines Sts.
 Kellogg, Harry F., Mech. Engr., Whipple Car Co., Rm. 624, 115 Adams St.
 Kimber, George Alfred, Mfr., 557-561 W. Jackson Blvd.
 King, Chas. G. Y., Ch. Constr. Engr., Cosmopolitan Elec. Co., Grove St.
 Krehbiel, Frederick A., Treas., Fuel Engrg. Co., 1712 Marquette Bldg.
 Kreutzberg, Otto August, V. P., Pfannmueller Engrg. Co., 1003 First Natl. Bank Bldg.
 Lane, Francis W., Engrg. Correspondent, London Times, 437 W. 67th St.
 Lavery, Geo. L., Pres., Am. Bank Equip. Co., 1315 Old Colony Bldg.
 Lea, Henry I., Cons. Gas Engr., Rookery Bldg.
 Leonard, Arthur G., V. P., Genl. Mgr., Union Stock Yard & Transit Co. of Chicago, Union Stock Yards.
 Levin, Arvid Michael, Mech. Engr., 910 Monadnock Bldg.

CHICAGO (Continued)

- Lindberg, Fritz A., Asst. Engr., Geo. M. Brill, 1134 Marquette Bldg.
- Lindquist, Edward W., Salesman, Allis-Chalmers Co., 1522 First Natl. Bank Bldg.
- Lockett, Kenneth, Mech. Engr., Orr & Lockett Hardware Co., 71-73 Randolph St.
- Lofts, David, Constr. Engr., Am. Steel Foundries.
- Lord, John E., Dist. Mgr., Buckeye Eng. Co., 1249 Marquette Bldg.
- Louer, Lewis S., Western Mgr., Engineering Record, 590 Old Colony Bldg.
- Ludlow, C. G., Mgr., Crosby Steam Gate & Valve Co., 435-37 W. Lake St.
- Luhr, Otto, Cons. Engr., 1137 Fullerton Ave.
- Lunger, Waldo G., Mgr., Chicago Branch, Union Twist Drill Co., 549 W. Wash. Blvd.
- Lyman, James, Engr., Western Dist., Genl. Elec. Co., 1047 Monadnock Bldg.
- Magee, John, Irrigation, Lands, Drainage, 1128 First Natl. Bank Bldg.
- Mahl, F. W., Asst. to Dir. Maintenance and Operation, Union Pacific System, and Southern Pacific Co., 135 Adams St.
- Marsh, Thomas Alfred, Mech. Engr., Green Engrg. Co., 1848 Commer. Natl. Bank Bldg.
- Melcher, Chas. W., Chicago Mgr., Ingersoll-Rand Co., 1500 Old Colony Bldg.
- Merrill, Albert S., Universal Portland Cement Co., Rm. 1830, Commer. Natl. Bank Bldg.
- Mitchell, John Hennon, Mgr. of Sales, Western Dist., Pressed Steel Car Co., Western Steel Car & Fdy Co., 1470 Old Colony Bldg.
- Mohr, Louis, Secy. and Cons. Engr., John Mohr & Sons, 349 W. Illinois St.
- Monroe, Wm. Stanton, Mech. Engr., Sargent & Lundy, 1720 Rwy. Exch. Bldg.
- Montgomery, H. M., Chicago Mgr., Alberger Condenser Co., 205 La Salle St.
- Moody, William O., Mech. Engr., Ill. Central R. R.
- Moore, Albert B., Ch. Engr., Griffin Wheel Co. of Chicago.
- Morava, Wensel, Pres., Morava Constr. Co., 1245 Marquette Bldg.
- Morse, Chas. H., Jr., Pres., Fairbanks, Morse & Co., 481 Wabash Ave.
- Moseley, Alexander Willett, Prof. Mechanics, Head Dept. Engrg., Lewis Inst.
- Murphy, John Z., Ch. Engr., Chicago Rwy. Co., 700 Boatland Bldg.
- Murray, Charles R., Supt., Barnhart Bros. & Spindler, 183-187 Monroe St.
- Naylor, Chas. Wm., Ch. Engr., Marshall Field & Co., 83 State St.
- Neller, Samuel Graham, Pres., Pierce, Richardson & Neller, 1409-12 Manhattan Bldg.
- Nettleton, William Alpheus, Genl. Supt. M. P., Chicago, Rock Island & Pacific Ry. Co., Rm. 935, La Salle St. Sta.
- Niles, Francis H., Pres. and Genl. Mgr., Blue Is. Car Equip. Co.
- Nistle, George W., Secy. Ill. Engrg. Co., 315 Dearborn St.
- O'Neil, J. G., Contr. Engr., 304 Rookery Bldg.
- Orcutt, Guy H., Testing Engr., Allis-Chalmers Co.

CHICAGO (Continued)

- Otis, Spencer, Mech. Engr., 517 Rwy. Exch. Bldg.
Owen, Ira June, Cons. Engr., 855-857 First Natl. Bank Bldg.
Patitz, Gerhardt J., Ch. Engr., Peter Schoenhofen Brewing Co., 18th St.
Paul, Charles Edward, Asso. Prof. Mechs., Armour Inst. of Tech.
Pearsall, Gilbert H., Genl. Mgr. of Sales, Jos. T. Ryerson & Son, 16th and Rockwell St.
Pearson, Walter B., Pres., Standard Screw Co., 6 Madison St.
Peck, Staunton B., V. P., Link-Belt Co., Cons. Engr., J. M. Dodge Co., 39th St. and Stewart Ave.
Pettis, Clifton D., Hewitt Mfg. Co., 303 Ry. Exch.
Pietz, Charles, Pres., Link-Belt Co., and V. P., J. M. Dodge Co., 39th & Stewart Ave.
Prosser, Joseph George, 412 E. 60th St.
Pulsifer, Harold M., Pres., Rockwood Sprinkler Co., 206 La Salle St.
Ransom, Allan, V. P., Marshall & Huschart Mchy. Co., 13 N. Canal St.
Rattle, Paul S., Mech. Engr., B. M. Osburn Co., 832 Commer. Natl. Bank Bldg.
Reid, John Simpson, Instr. Mech. Drawing and Design, Armour Inst. of Tech.
Rice, Arthur L., Managing Editor, The Practical Engineer, Consulting on Power Plant Engrg., 355 Dearborn St.
Riggs, John D., 162 N. Pine Ave.
Righter, Addison A., Dir. and Mech. Engr., John M. Ewen Co., 525 Rookery Bldg.
Ruckes, Joseph J., Jr., Engr., Barrett Mfg. Co.; also New York, N. Y.
Sargent, Frederick, Mech. Engr., Sargent & Lundy, Ry. Exch.
Saxon, William, Genl. Supt., Miehle Ptg. Press & Mfg. Co.
Sayers, William W., Constr. Engr., Link-Belt Co., 39th St. and Stewart Ave.
Schenck, Charles, Supt., Elev. Supply & Repair Co., 561 W. Monroe St.
Scott, George Welsby, Cons. Engr., Security Bldg.
Seymour, Dudley S., Supt., Union Spec. Mch. Co., 75 E. Kinzie St.
Shankland, E. C., Civ. Engr., E. C. & R. M. Shankland, 1106 Rookery Bldg.
Sherman, Mason H., Genl. Mgr., By-Products Coke Corp., 1121 Marquette Bldg.
Snyder, Frederick T., Pres., Metallurgic Engrg. Co., 737 Monadnock Bldg.
Sorge, Adolph, Mech. Engr., 1537-38 Monadnock Bldg.; also St. Joseph, Mich.
Southworth, Martin O., Elec. Engr., Fairbanks, Morse & Co., 481 Wabash Ave.
Steele, Walter D., V. P., Benjamin Elec. Mfg. Co., 507 W. Jackson Blvd.
Spencer, Frank C., Mech. and Constr. Engr., 7135 Eggleston Ave.
Stimson, Oscar M., 5006 Michigan Ave.
Sweeney, John M., Mech. Engr., 1306 Monadnock Bldg.
Thorp, George G., Second V. P., Ill. Steel Co., Commer. Natl. Bank Bldg.
Traver, Wilber H., Mgr., Mining and Contract Dept., Chicago Pneu. Tool Co., 1010 Fisher Bldg.

CHICAGO (Continued)

- Troutman, Howard Ellsworth, 4551 Forestville Ave.
 Unger, John S., Cons. Engr., 613 N. Y. Life Bldg.
 Van Zandt, Paul C., Mech. Engr. and Salesman, Cement Dept., Allis-Chalmers Co., 1522 First Natl. Bank Bldg.
 Wait, Henry Heileman, Pres., Rateau Turbine Co., 215 Wabash Ave.
 Waite, Edward B., Head Instr. Dept., Am. Sch. of Correspondence, 58th St. and Drexel Ave.
 Wells, Frederick Latimer, 101 S. Clinton St.
 Wetmore, Charles P., Pres., Am. Adding Mch. Co.
 Whittemore, D. J., Ch. Engr., C. M. & St. P. Ry., 1345 Ry. Exch.; also Milwaukee, Wis.
 Widdicombe, R. A., V. P. and Mgr., Dixon Steam System Co., First Natl. Bank Bldg.
 Williams, George W., Asst. Engr., Brill & Gardner, 1134 Marquette Bldg.
 Wilson, William L., Aluminum Co. of America, Old Colony Bldg.
 Winger, Stanley D., Sales Engr., care Green Engrg. Co., Commer. Natl. Bank Bldg.
 Wisner, George M., Ch. Engr., Sanitary Dist. of Chicago, 1500 Am. Trust Bldg.
 Wolf, Fred William, Pres., Fred W. Wolf Co., 827-831 Rees St.
 Zapp, Louis M., A. L. Drum & Co., 624 Am. Trust Bldg.
- CHICAGO HEIGHTS.—Smith, Geo. Marshall, Ch. Engr., Inter-Ocean Steel Co.
- DECATUR.—Smith, Harry E., Prof. Mech. Engrg., James Millikin Univ.
- EAST ALTON.—Olin, F. W., Pres., Equitable Powder Mfg. Co., Western Cartridge Co., and Union Cap and Chem. Co.
- EAST MOLINE.—Root, Orlando J., Secy., Root & VanDervoort Engrg. Co., and Moline Auto. Co.
- ELGIN.—Gabriel, Wm. A., Ch. Draftsman and Designer, Elgin Natl. Watch Co.
 Hunter, Geo. E., Genl. Supt., Elgin Natl. Watch Co.
 Malvern, Lewis K., Foreman Mch. Dept., Elgin Natl. Watch Co., Box 64.
 Price, Albert M., Cons. Mech. Engr., 56 River St.
- GRANITE CITY.—Jefferies, Frederick Lester, Supt., Corn Products Refining Co.
- HARVEY.—Brandon, Geo. Russell.
 Jenkins, M. L., Genl. Supt., Buda Fdy. & Mfg. Co.
 McDougall, Andrew Horace, Ch. Engr., Whiting Fdy. Equip. Co.
- HAWTHORNE.—Albright, H. Fleetwood, Genl. Supt., Western Elec. Co., 48th Ave. and W. 24th St.
 Dodge, Albert C., Supt., Western Elec. Co.
 Harper, John, Ch. Draftsman, Western Elec. Co., 48th Ave. and 24th St.
 Pennock, George Alger, Asst. Supt., Service and Maintenance, Western Elec. Co.
 Puchta, Edward, Asst. Supt., Western Elec. Co., 48th Ave. and W. 24th St.
 Sage, Harmon M., Asst. Genl. Supt., Western Elec. Co., 48th Ave. and 24th St.
 Spurling, O. C., Plant Engr., Western Elec. Co.
 Wallace, David A., Mech. Engr., Western Elec. Co.

JOLIET.—Case, Milo McClelland, Ch. Draftsman, Champion Mchy. Co.

Fisher, Lee David, Ch. Engr., Fisher Constr. Co., 100 Cass St.

Heald, George W., Engr., Heggie-Woodruff Pressed Steel Co.

Meaker, Guy Larnard, Asst. Supt., Am. Steel Wire Co., Rockdale Wks.

KEWANEE.—Bannister, John C., Mgr., Kewanee Wks., Natl. Tube Co.

McCarthy, Harry, Ch. Draftsman, Natl. Tube Co.

Newlin, Alexander Z., Mech. Engr., Natl. Tube Co.

Terry, Charles D., Supt., Mills Depts., Natl. Tube Co., Kewanee Wks.

LA SALLE.—Neureuther, Andrew Henry, Mech. Engr., Western Clock Mfg. Co.

MOLINE.—Mixer, George W., Genl. Supt., Deere & Co.,

OAK PARK.—Shallenberger, Louis R., 239 Maple Ave.

OGLESBY.—Fraser, D. Ross, Chicago Portland Cement Co.

PEORIA.—Belsley, Clay, City Engr., 308 City Hall.

Harman, John J., Mech. Engr., Harman Engrg. Co., 120 Fredonia Ave.

Maury, Dabney Herndon, Cons. Engr., 129 N. Jefferson Ave.

Wallace, Ross S., Supt., Peoria Gas & Elec. Co., 125-7 N. Jefferson Ave.

QUINCY.—Hill, Thomas, Cons. Engr., 2102 Jersey St.

ROCKFORD.—Barnes, W. F., 813 N. Main St.

Burt, Clayton R., Genl. Supt., Barber-Colman Co., 523 Fisher Ave.

Goddard, Arthur L., 1618 School St.

Ingersoll, Winthrop, Pres., Ingersoll Milling Mch. Co., 911 N. Church St.

ROCK ISLAND.—Mayall, E. L., Genl. Supt., Rock Island Plow Co.

SOUTH CHICAGO.—Bacon, Charles James, Steam Engr., Ill. Steel Co.

Frey, Heinrich Josef Karl, M. E., Asst. Engr. of Constr., Ill. Steel Co.

Newton, Peter Augustin, Asst. Genl. Supt., Ill. Steel Co., South Wks.

Sampson, Chas. C., M. E., Inspr. Gas Power Mchy., Ill. Steel Co.

URBANA.—Bench, Alfred Rittscher, Instr., Mech. Engrg., Univ. of Ill.

Brooks, Morgan, Prof. Elec. Engrg., Univ. of Ill.

Dirks, Henry B., Instr., Mech. Engrg., Univ. of Ill., 307 Engrg. Hall.

Dunkin, William Van, Instr., Mch. Design, Univ. of Ill.

Garland, Claude Mallory, Instr., Mech. Engrg., Univ. of Ill.

Goss, W. F. M., Dean College of Engrg., Univ. of Ill.

Leutwiler, Oscar A., Asst. Prof. Mch. Design, Univ. of Ill.

Marquis, Frank W., R. E. Dept., Engrg. Exper. Sta., M. E. Lab., Univ. of Ill.

Schmidt, Edward C., Asso. Prof. Ry. Engrg., Univ. of Ill.

Snodgrass, John McB., Asst. Prof. Mech. Engrg., Univ. of Ill.

Thorpe, John C., Asst. Prof. Steam Engrg., Univ. of Ill.

Whittemore, Herbert L., Lab. Applied Mechanics.

WAUKEGAN.—Ekstrand, Lars Magnus, Engr., Chicago Dist., Am. Steel & Wire Co.

WINNETKA.—Herdman, Frank E., Mgr. and Engr., Water and Light Properties.

INDIANA

BRAZIL.—Crawford, C. W., Supt., Crawford & McCrimmon Co.

ELWOOD.—McArthur, Arthur Royal, Dist. Engr., Am. Sheet & Tin Plate Co.

FORT WAYNE.—Astrom, John, Mech. Engr., 611 W. Wayne St.

Barrett, Walter A., Sales Dept., Bass Fdy. & Mch. Co.

Cork, Robert L., Gasholder Engr., Western Gas Cons. Co.

Cressler, Geo. Holloway, Secy., Kerr Murray Mfg. Co., 501 W. Berry St.

Cressler, Kerr Murray, Engr., Kerr Murray Mfg. Co.

Guldlin, Olaf N., Pres. and Ch. Engr., Western Gas Constr. Co.

Hackney, Wm. W., Jr., Asst. Engr., Western Gas Constr. Co.

Morris, Wm. S., 813 W. Berry St.

Muir, John J., Mech. Supt., Bass Fdy. & Mch. Co.

Stone, Thos. W., Engr., Western Gas Constr. Co.

GARY.—Morgan, John R., Mech. Engr., 261 Van Buren St.

INDIANA HARBOR.—Lees, John Walter, Genl. Supt., Inland Steel Co.

MacGregor, Walter, care Am. Steel Foundries.

INDIANAPOLIS.—Bixby, Allan Smith, Supt., Natl. Malleable Castings Co.

De Haven, Irvin C., Dist. Mgr., A. Sorge, Jr., Co., 525 State Life Bldg.

Hamerstadt, William Diehl, Engr., Rockwood Mfg. Co.

Hanna, Hugh Henry, Jr., V. P., Atlas Engine Wks.

Kennedy, Harold H., Auto. Engr. and Designer, The Waverley Co.

Libby, Charles Leon, V. P. and Supt., Internatl. Mch. Tool Co.

McMeans, O. E., Cons. Engr., 607 State Life Bldg.

Mayer, Louis G. C., 2916 N. Senate St.

Millholland, William Knox, Pres., W. K. Millholland Mch. Co., Industrial Bldg.

Mueller, Otto Nicholas, Ch. Engr., Noelke Richards Iron Wks.

Sample, Morris De F., Secy. and Treas., Fire Protection Co., 509 Lemcke Bldg.

Schwartz, Harry Adolph, Chemist, Natl. Malleable Castings Co.

Symonds, Nathaniel Gardiner, Sales Engr., Westinghouse Mch. Co., 404 Traction Terminal Bldg.

Taylor, Wm. M., Pres., Chandler & Taylor Co., S. Addison St.

Todd, Robert J., V. P. and Genl. Mgr., Indianapolis Traction & Terminal Co.

Wainwright, Lucius M., Pres., Diamond Chain & Mfg. Co., 241 W. Georgia St.

Wall, William Guy, Mech. Engr., Natl. Motor Vehicle Co.

Warrington, Jesse, Mech. Supt., Nordyke & Marmon Co.

Weinshank, Theodore, Mgr., Am. Engrg. Supply Co., 729 Newton Claypool Bldg.

KENDALLVILLE.—Purinton, Arthur James, Mgr. for Receiver, Toledo & Chicago Interurban Ry. Co.

LAFAYETTE.—Benjamin, Chas. Henry, Dean, Schools of Engrg., Purdue Univ.

Cole, Arthur W., Asst. Prof. Mech. Engrg., Purdue Univ.

Golden, M. J., Prof. Practical Mechanics, Purdue Univ.

Hoffman, James David, Prof. Engrg. Design, Purdue Univ.

Jamison, Alpha Pierce, Prof. Mech. Drawing, Purdue Univ.

Ludy, Llewellyn V., Prof. Mech. Engrg., Purdue Univ.

Price, Melvin, Mech. Engr., R. 7.

Turner, William Payson, Prof. Practical Mechs., Purdue Univ.

LAFAYETTE (Continued)

Veal, C. B., Asst. Prof. Mch. Design, Purdue Univ.

Young, Gilbert A., Asst. Prof. Mech. Engrg., Purdue Univ.; also Cambridge, Mass.

LA PORTE.—Crook, Geo. Louis, Factory Mgr., M. Rumely Co.

Rumely, William N., Pres., M. Rumely Co.

Zimmerman, Oliver B., Mech. Engr., and Ch. Draftsman, M. Rumely Co.

MISHAWAKA.—Ahara, Edwin Hugh, Genl. Supt., Dodge Mfg. Co.

Miller, Herman G., Mech. Engr., Rubber Regenerating Co.

Mix, Melville W., Pres. and Mgr., Dodge Mfg. Co.

Roe, Walter E., Ch. Draftsman, Dodge Mfg. Co.

MUNCIE.—Davis, Charles Ethan, Genl. Mgr., Warner Gear Co.

SOUTH BEND.—Bishop, Frank, Mech. Engr., Singer Mfg. Co., Case Factory.

Emerson, R. W., Industrial Engr. and Factory Economist, 306 Dean Bldg.

Rickey, Walter J., Wks. Mgr., Singer Mfg. Co.

Smart, Richard Addison, Wks. Mgr., Oliver Chilled Plow Wks.

TERRE HAUTE.—Peddle, John Bailey, Prof. Mch. Design, Rose Poly. Inst.

Wagner, Frank C., Prof. Steam Engrg., Rose Poly. Inst.

IOWA

AMES.—Davidson, J. Brownlee, Prof. Agri. Engrg., Iowa State College.

Major, C. C., Assoc. Prof. Mech. Engrg., Engrg. Hall, Iowa State College.

BURLINGTON.—Salmon, Frederick W., Civ. and Mech. Engr., Murray Iron Wks.

CHARLES CITY.—Willson, Ernest M., Ch. Draftsman, Hart-Parr Co.

DAVENPORT.—Bettendorf, William P., Pres., Bettendorf Axle Co.

Hayward, Elmer L., Pres., Freeo Valley Ry. and Nacogdoches S. E. R. R. Co., First Natl. Bank Bldg.

DUBUQUE.—Larson, Charles J., Ch. Engr., Union Elec. Co.

Loetscher, Emil C., V. P., Loetscher-Ryan Mfg. Co.

IOWA CITY.—Woodward, Sherman Melville, Prof. Hyd. and Engrg. Materials, State Univ. of Ia.

KANSAS

CANEY.—Wettengel, C. Albert, Engr., Am. Zinc, Lead & Smelt-ing Co.

CHANUTE.—Coburn, Richard G., 19 S. Central St.

INDEPENDENCE.—Davis, Herbert R., Asst. to Genl. Mgr., Kan. Natural Gas Co.

IOLA.—Hunt, Leigh Anson, Pres., Hunt Engrg. Co.

LAWRENCE.—Corp, Charles I., Asst. Prof. Mech. Engrg., Kan. Univ.

Walker, Perley F., Prof. Mech. Engrg., Univ. of Kan.

MERRIAM.—McBain, William Coryell, Ch. Engr., Kansas City & Olathe Elec. R. R. Co.

PARSONS.—Maddocks, Wm. H., Asst. Supt., Mchy. and Equip., M. K. & T. Ry.

TOPEKA.—Brooks, Henry K., Pres., Capital Iron Wks.
 Jacobs, Henry William, Asst. Supt., M. P., Atchison, Topeka &
 Santa Fé Ry. System, cor. Crane and Adams Sts.
 MacFarland, Helon Brooks, Engr. of Tests, Atchison, Topeka &
 Santa Fé Ry. Co.

KENTUCKY

LEXINGTON.—Anderson, Frederick Paul, Dir., College of Mech.
 and Elec. Engrg., and Prof. Mech. Engrg., State Univ. of Ky.
LOUISVILLE.—Hamilton, Thomas Smith, Mech. Engr., Mengel Box
 Co.
 Herb, Arthur, Mech. Engr., J. Schwarzwald & Sons, 18th and
 Magnolia Sts.
 Speed, Wm. S., V. P. and Mgr., Louisville Cement Co.
MT. STERLING.—McKee, Neal Trimble, H. Clay McKee & Sons Co.,
 71 W. Main St.
NEWPORT.—Robinson, Louis G., cor. Fourth and Park Ave.

LOUISIANA

BATON ROUGE.—Kerr, Eugene W., Prof. Mech. Engrg., La. State
 Univ.
BOYCE.—Anderson, Robt. Marshall.
CINCLARE.—Whipple, William, Supt., Cinclare Central Factory.
LAKE CHARLES.—Chalkley, Henry G., Mgr. and Engr., North Am.
 Land & Timber Co.
MORGAN CITY.—Pharr, Eugene A.
NEW ORLEANS.—Beck, James Doughty, Supt. Constr., Shakespeare
 Iron Wks.
 Borde, George U., Cons. Engr., 914 Hibernia Bldg.
 Burwell, Robert Turnbull, Ch. Insp., Gulf Dept., Hartford Steam
 Boiler Insp. & Ins. Co., 833 Gravier St.
 Castanedo, Walter, Member of Firm, Glenny & Castanedo, 1125-27
 Maison Blanche Bldg.
 Crawford, Charles C., Jr., A. M. Lockett & Co., Ltd., 533 Baronne
 St.
 Gregory, William B., Prof. Exper. Engrg., Tulane Univ., and
 Irrigation Engr., U. S. Dept. of Agriculture, 630 Pine St.
 Hopkins, Guy, Operating Engr., Southern Pacific R. R.
 Hutson, Henry L., A. M. Lockett & Co., 533 Baronne St.
 Ivens, Edmund M., Asst. Mgr., New Orleans Office, Skinner Eng.
 Co., 1018 Hibernia Bank Bldg.
 Jahncke, Ernest Lee, Mgr., Jahncke Navigation Co., 814 Howard
 Ave.
 Johnson, Lewis, Pres., Johnson Iron Wks., Ltd., P. O. Drawer 241.
 Johnson, Warren, Cons. Engr., 704 Audubon Bldg.
 Lindsay, W. Edward, Cons. Engr., 831 Perdido St.
 Lockett, Andrew Moore, Pres., A. M. Lockett & Co., Ltd., 533
 Baronne St.
 McKinney, Edward Byron, Supt. of Power, New Orleans Ry. &
 Light Co., 323 Baronne St.
 Malochee, Henry J., Mech. Engr., 320 Hibernia Bldg.
 Raymond, Alfred, Genl. Mgr. of Drainage, Municipal Office Bldg.
 Reed, Warren Bettison, Cons. Engr., 1013 Hibernia Bldg.
 Rugan, Henry Fisler, Asso. Prof. Mech. Arts, Tulane Univ.
 Sammons, E. A., Pres., E. A. Sammons Co., 303-307 Magazine St.
 Von Phul, William, Engr. in charge Southern Properties, Ford,
 Bacon & Davis, Liverpool, London & Globe Bldg.

NEW ORLEANS (Continued)

- Westerfield, George Sumner, Mgr. and Dist. Mgr., Hooven, Owens, Rentschler Co., 326-328 Hennen Bldg., and Warren Webster & Co.
White, Maunsel, Cons. Engr and Steel Met., P. O. Box 206.
OLIVER.—Pharr, Henry Newton, Sugar Planter and Mfr., Iberia Parish.
WASHINGTON.—King, Geo. Caryl, Asst. Genl. Mgr. and Mech. Engr., Union Irrigation Co.

MAINE

- BANGOR.—Humphrey, Orman B., Cons. Engr., 96½ Exchange St.
Penney, Rodney Clapp, Mech. Engr., Dodge Mfg. Co.
Rowe, George F., Mech. Engr.
BATH.—Andrews, Jacob R., Pres., Hyde Windlass Co.
Hyde, John Sedgwick, Pres. and Genl. Mgr., Bath Iron Wks.
BIDDEFORD.—McArthur, Robt., Agt., Pepperel Mfg. Co.
BRUNSWICK.—Eaton, Russell Wm., Agt., Cabot Mfg. Co.
CUMBERLAND MILLS.—Warren, John E., Agt., Paper & Pulp Mills.
MILLINOCKET.—Ferguson, Hardy Smith, Ch. Engr., Great Northern Paper Co.
NORTH LOVELL, OXFORD CO.—Garcelon, Charles A., Jr.
ORONO.—Jewett, Arthur C., Prof. Mech. Engrg., Univ. of Maine.
SCARBOROUGH.—Jordan, Samuel S., Naval Arch. and Engr.
SOUTH BREWER.—Clark, Charles B., Genl. Supt., Eastern Mfg. Co.
WATERVILLE.—Marr, Geo. H., Mech. Engr., Hollingsworth & Whitney Co.
Philbrick, Frank B., 20 College Ave.

MARYLAND

- ANNAPOLIS.—Cole, Winthrop, Mech. Engr., Engrg. Exp. Sta., U. S. Naval Academy.
Howard, O. Zell, Mech. Engr. and Asst. to Dir., U. S. Naval Exper. Sta.
Johnson, Theodore Woolsey, Prof. Mech. Drawing, U. S. Naval Academy.
BALTIMORE.—Adams, Henry, Cons. Engr., 855-859 Calvert Bldg.
Basshor, Chas. Hazeltine, V. P. and Genl. Mgr., Thomas C. Basshor Co., 28 Light St.
Boyden, George A., P. O. Box 486.
Chatard, Wm. Miles, Mfrs. Agt., 1412 Continental Trust Bldg.
Darbee, William, Asst. Genl. Mgr., Con. Gas, Elec. Light & Power Co. of Baltimore.
De Baufre, Wm. L., Instr. Dept. Engrg., Baltimore Poly. Inst.
Detrick, Jacob S., Pres., Detrick & Harvey Mch. Co., 508 E. Preston St.
Ford, John D., Rear Admiral, U. S. N., 2319 Maryland Ave.
Grieves, E. W., Mech. Exprt., Galena Signal Oil Co. of Franklin, Pa.
Jackson, F. W., Dist. Mgr., Harrisburg Fdy. & Mch. Wks., Continental Trust Bldg.
Johnson, Bradley S., Rep., Farlow Draft Gear Co.
Keilholtz, Pierre Otis, Cons. Engr., Continental Bldg.
Lazenby, Francis A., F. A. Lazenby & Co., Bush and Wicomico Sts.

BALTIMORE (Continued)

- McLaughlin, James, Pres., McLaughlin Bros., Inc., 915 Bolton St.
 Middleton, Harvey, Pres., Thos. C. Basshor Co., Engrs. and Contractors, 28 Light St.
 Muhlfeld, John E., Genl. Supt. M. P., B. & O. R. R.
 Parker, John Henry, Supt., King Cork & Seal Co., 600 Buren St.
 Peirce, Wm. Henry, V. P. and Genl. Mgr., Baltimore Copper Smelting & Rolling Co.
 Polk, Anderson, Asso. with Lowe Bros. Co. of Dayton, O., Bank of Commerce Bldg.; also New York, N. Y.
 Posey, James, Asst. Engr., Henry Adams, Cons. Engr., 859 Calvert Bldg.
 Reeder, Charles L., Cons. Engr., 919-921 Equitable Bldg.
 Schmidt, Charles R., 200 E. 24th St.
 Scott, James B., Cons. Engr., Maryland Savings Bank Bldg.
 Sickles, Eugene Chas., Supt., Power Plants, B. & O. R. R., 712 Dolphin St.
 Thomas, Edward W., Genl. Mgr., Consol. Cotton Duck Co.; also Lowell, Mass.
 Varney, Wm. Wesley, Mech. Engr., and Atty.-at-Law, 1221 Calvert Bldg., St. Paul and Fayette St.
CUMBERLAND.—Muncaster, Walter J., V. P. and Genl. Mgr., Cumberland Steel Co.
SPARROWS POINT.—Jump, Edmund P., Md. Steel Co.
 Lane, Harry Clay, Ch. Draftsman, Md. Steel Co.
 Martin, Simon Strock, Supt., Md. Steel Co., P. O. Box 87.

MASSACHUSETTS

- ACTON.**—Crooker, Ralph, Jr., Cons. Engr.
ADAMS.—Plunkett, Charles T., V. P. and Secy., Berkshire Cotton Mfg. Co.
ASHLAND.—Replogle, M. A., Lombard Engrg. Co.
ATHOL.—McGregor, John A., Pres., Union Twist Drill Co.
 Simpson, Robert James Osborne, Supt. and Mech. Engr., L. S. Starrett Co.
ATTLEBORO.—Mossberg, Frank, Pres. and Genl. Mgr., Frank Mossberg Co., also V. P., Cons. Engr., Standard Mech. Co. of Providence, R. I.
 Tuttle, Walter Irving, Secy., Treas. and Asst. Genl. Mgr., Frank Mossberg Co.
AUBURNDALE.—Kendall, James H.
BEVERLY.—Ball, Walter Seaver, United Shoe Mchy. Co.
 Farrell, Harry C., Mech. Engr., United Shoe Mchy. Co.
 Kaven, Moses B., Supt., United Shoe Mchy. Co.
BOSTON.—Adams, Kilburn E., Mech. Engr., Boston & Albany R. R., Rm. 372, South Sta.
 Aldrich, Chester S., Treas., Gray-Aldrich Co., 7 Commer. Wharf.
 Andersen, Johan Marinius, Pres., Albert & J. M. Andersen Mfg. Co., 289 A St.
 Andrew, James D., Boston Elev. Ry. Co., 439 Albany St.
 Ashton, Albert Carter, Treas., Ashton Valve Co., 271 Franklin St.
 Bagg, Samuel F., 114 Water St.
 Bailey, Ervin G., Mech. Engr., Fuel Testing Co., 220 Devonshire St.
 Barker, Perry, Chem. Engr., A. D. Little, Inc., 93 Broad St.
 Barrus, Geo. H., Expt. and Cons. Steam Engr., Rm. 301, Pemberton Bldg., 12-20 Pemberton Sq.

BOSTON (Continued)

- Bartlett, Charles H., Constr. Engr., Stone & Webster Engrg. Corp.
 Bartlett, Henry, Genl. Mech. Supt., Boston & Maine R. R., North Sta.
 Bates, Edward Carrington, 122 Marlboro St.
 Bellows, Lewis Edward, 24 Milk St.
 Bigelow, Charles H., with Chas. T. Main, Mill Engr., 45 Milk St.
 Blood, John Balch, Cons. Engr., Blood & Hale, 10 P. O. Sq.
 Boyd, John T., Mgr., Yale & Towne Mfg. Co., 12 Pearl St.
 Brown, Charles F., Solicitor of Patents, 837 Exch. Bldg.
 Brown, Harry W., Engr., D. C. & Wm. B. Jackson, 84 State St.
 Bullock, Edwin R., Mech. Engr., United Cotton Gin Co., 184 Summer St.
 Bump, Archie Edmund, Mgr., Constr. Dept., Swift & Co., 34 N. Market St.
 Burleigh, Chas. B., Commer. Engr., Genl. Elec. Co., 84 State St.
 Bushnell, Fred. N., Stone & Webster Engrg. Corp., 147 Milk St.; also Providence, R. I.
 Butcher, Joseph J., Guiler-Gordon Engrg. Co., 442 Bd. of Trade Bldg., 10 Broad St.
 Campbell, Jeremiah, 38 Kilby St.
 Carhart, Alfred B., Supt., Crosby Steam Gauge & Valve Co.
 Chandler, Clarence Austin, Mech. Engr., 402 Penn Mutual Bldg., 24 Milk St.
 Chapman, David Albert, Supt., Estate of E. S. Converse Co., 101 Milk St.
 Cheney, Nathan, Ch. Draftsman, Stone & Webster Engrg. Corp., 147 Milk St.
 Church, Wm. Lee, Pres. and Cons. Engr., Ambursen Hyd. Constr. Co., 176 Federal St., also New York, N. Y.
 Clark, Edward Lord, Mgr., Boston office, Westinghouse Mch. Co., 131 State St.
 Clarke, Alfred, Pres., Gas & Elec. Corps., 131 State St.
 Coburn, Howard L., Secy. and Mech. Engr., Ambursen Hyd. Constr. Co., 176 Federal St.
 Collins, B. R. T., Engr., Stone & Webster Engrg. Corp., 147 Milk St.
 Colwell, James V. V., Mgr., N. E. Dept., Heine Safety Boiler Co., 176 Federal St., also New York, N. Y.
 Craig, Charles H., Jr., Asst. with Chas. T. Main, Mill Arch. and Engr., 45 Milk St.
 Crosby, William Wyman, with F. W. Dean, Mill Engr. and Arch., Rm. 1112, 53 State St.
 Cummings, Wm. Warren, Asst. Mgr., Commer. Dept., Boston Cons. Gas Co., 24 West St.
 Cunningham, Thos., Treas. and Genl. Mgr., Cunningham Iron Co., Summer, B and Fargo Sts.
 Curtis, Ralph E., Edison Elec. Ill. Co. of Boston, 39 Boylston St.
 Daggett, Herbert Chapin, Mgr., N. E. Branch Office, S. Morgan Smith Co., 176 Federal St.
 Dawes, Herbert N., V. P., Nightingale & Childs Co., Pres., Cerro Gordo Fruit Co., Secy., Dominion Asbestos Co., Ltd., 205 Congress St.
 Dean, Francis W., Mill Engr. and Arch., Exch. Bldg., 53 State St.
 Densmore, Edward D., Cons. Engr., Densmore & LeClear, 88 Broad St.
 De Wolf, John O., Mech. and Mill Engr., 159 Devonshire St.

BOSTON (Continued)

- Dietz, Carl F., Cons. Engr., Dietz & Keedy, 6 Beacon St.
 Douglas, Courtney Carlos, Steam Turbine Engr., Genl. Elec. Co., 84 State St.
 Dow, Carl Stephen, Publicity Engr., with Walter B. Snow, 170 Summer St.
 Duncan, Albert Greene, Treas., Chicopee Mfg. Co.
 English, William T., Pres., English & Flett, Inc., 226 Congress St.
 Farrar, Chas. O., Supt. Constr., Otis Elev. Co., 53 State St.
 Flather, Frederick A., Treas., Boott Mills, 79 Milk St.
 French, Edward Vinton, V. P. and Engr., Arkwright Mut. Fire Ins. Co., 31 Milk St.
 Frothingham, Francis Edward, Engr., Perry, Coffin & Burr, 60 State St.
 Galloupe, Francis E., Mech. Engr., Rm. 336, Old South Bldg.
 Gleason, Gilbert Howe, Engrg. Salesman, Dodge Mfg. Co., 137 Purchase St.
 Goodale, A. M., Treas., Boston Mfg. Co., 40 State St.
 Gooding, Chas. S., Mech. Engr. and Solicitor Patents, 28 School St.
 Greene, Levi R., Cons. Engr., Walworth Mfg. Co., 132 Federal St.
 Hale, Robt. Sever, Supt., Sales Dept., Edison Elec. Ill. Co., 39 Boylston St.
 Hart, Robert W., N. E. Mgr., Olds Gas Power Co., 65 Beverly St.
 Hartwell, Hiram B., Ch. Draftsman, Crosby Steam Gage & Valve Co.
 Haven, Henry M., Mech. and Refrig. Engr., F. W. Dean, 53 State St.
 Hawkins, John T., Mech. Engr., 68 Westland Ave.
 Hayes, Frank H., Pres., F. H. Hayes Mch. Co., 101-103 High St.
 Hayes, J. Howard, Partner, J. H. Hayes Mch. Co.
 Heermann, Frederick M., Engr. and Spec. Insp., Factory Mut. Fire Ins. Cos., 31 Milk St.
 Hildreth, William Osgood, Engr., Lamson Cons. Store Service Co., 161 Devonshire St.
 Hill, Walter L., Hill-Ray Engrg. Co., 110 State St.
 Hinds, Fred Sumner, Arch. and Mech. Engr., 19 Milk St.
 Hogan, Patrick Henry, N. E. Mgr., Dearborn Drug & Chem. Wks., 8 Oliver St.
 Hogue, Oliver D., Mgr., Power Pump Dept., Goulds Mfg. Co., 1106 Tremont Bldg.
 Hosmer, Sidney, Elec. Engr., Edison Elec. Ill. Co., 39 Boylston St.
 Hughes, Edward F., Agt., Chapman Valve Mfg. Co., 94 Pearl St.
 Humphreys, Walter, Instr. and Registrar, Mass. Inst. of Tech.
 Hussey, Oren S., Treas., Frank Ridlon Co., 253 A St.
 Hutchison, Richard, Asst. Dist. Sales Mgr., Babcock & Wilcox Co., 10 Post Office Sq.
 Jackson, Dugald C., Mass. Inst. of Tech., also D. C. & Wm. B. Jackson, Engrs., Chicago, Ill.
 Jennings, Edward M., Sales Agt., Parson Mfg. Co., Rm. 509, 53 State St.
 Kellogg, Alfred S., Cons. Engr.
 Kendrick, Paul H., Ingalls & Kendrick, Inc., 80 Sudbury St.
 Keough, William T., Business Agt., Boston Pub. Schools, Mason St.
 Kilgour, Dwight Foster, Mech. Engr. for Chas. E. Cotting, Trustee, 11 Pemberton Sq.

BOSTON (Continued)

- Kimball, Richard D., 6 Beacon St.
 Kunhardt, Lewis Henry, V. P. and Engr., Boston Mfrs.' Mut. Fire Ins. Co., 31 Milk St.
 Lacount, Henry Osgood, Engr. and Asst. Secy., Insp. Dept., Assoc. Factory Mut. Fire Ins. Co., 31 Milk St.
 Lanza, Cav. Gaetano, Prof. Theoretical and Applied Mech., in charge Dept. Mech. Engrg., Mass. Inst. of Tech.
 Lawton, M. A., Treas., A. J. Morse & Son, Inc., 221 High St.
 Leland, Sanford Daniels, Pres. and Genl. Mgr., Mfg. Equip. & Engrg. Co., 209 Wash. St.
 Libbey, Joseph Harold, Mech. and Elec. Engr., Stone & Webster Engrg. Corp., 147 Milk St.
 Lucker, Grover Cleveland, Agt., Ingersoll-Rand Co., 73 Oliver St.
 McClintock, Edward H., Constr. Engr., with Chas. T. Main, Engr., 45 Milk St.
 McLauthlin, Martin B., Engr. and Treas., Geo. T. McLauthlin Co., 120 Fulton St.
 MacKenzie, Donald, M. E., Swift & Co., 34 N. Market St.
 Main, Charles T., Engr., Rms. 817-833, 201 Devonshire St.
 Merrill, Frank A., Mgr., The Merrill Co., 19 Pearl St.
 Metcalf, Leonard, Cons. Civ. Engr., Metcalf & Eddy, 14 Beacon St.
 Miller, Edward Furber, Prof. Steam Engrg., Mass. Inst. Tech.
 Monks, Archibald G., Partner, Monks & Johnson, 7 Water St.
 Morgan, Wm. F., N. E. Agt., Am. Mfg. Co., 107 Ames Bldg.
 Mosman, Chas. Tyler, Engr., Genl. Elec. Co., 84 State St.
 Moulthrop, Irving E., Mech. Engr., Edison Elec. Ill. Co. of Boston, 39 Boylston St.
 Murphy, Frederick E., Ch. Engr., Am. Sugar Refining Co., Standard Refinery, Granite St.
 Paine, Sidney B., Mgr., Mill Power Dept., Genl. Elec. Co., 84 State St.
 Palmer, George W., Jr., Elec. Engr., Old Colony St. Ry. Co., Boston & Northern St. Ry. Co., and Hyde Park Elec. Light Co., 84 State St.
 Park, William R., Supt., Hancock Inspirator Co., 23 Watson St., Sta. A.
 Parker, Charles H., Asst. Supt., Generating Dept., Boston Edison Co., 39 Boylston St.
 Parker, Lee Hamilton, Ry. Engr., Stone & Webster Eng. Corp., 147 Milk St.
 Patterson, A. W., Jr., Mgr., Invincible Elec. Renovator Sales Co., 408 P. O. Sq. Bldg.
 Perrigo, Oscar Eugene, Cons. Mech. Engr. and Pres., Modern Systems Cor. Sch., 6 Beacon St.
 Perry, Frank B., Mill Power Dept., Genl. Elec. Co., 84 State St.
 Pierce, Richard H., Cons. Engr., 35 Congress St.
 Powell, E. Burnley, Stone & Webster Engrg. Corp., 147 Milk St.
 Randall, Dwight T., Engr. in charge, Fuel Eng. Dept., Arthur D. Little, Inc., 93 Broad St.
 Riley, Joseph C., Asst. Prof. Mech. Engrg., Mass. Inst. of Tech.
 Rivett, Edward, Pres. and Mgr., Rivett Lathe Mfg. Co., 2 Brooks St., Brighton.
 Robinson, Henry Smith, Cons. Engr. and Pres., Atlantic Wks., 28 State St.
 Russell, Walter B., Dir., Franklin Union.
 Schaeffler, Joseph C., Mech. and Civ. Engr., Joseph C. Schaeffler & Co., Archs. and Engrs., 73 Tremont Bldg.

BOSTON (Continued)

- Schroeder, Frederick A., Mech. and Elec. Engr., Mass. Ltg. Cos.
 Schumaker, John Stauble, Schumaker & Santry, 141 Milk St.
 Schwamb, Peter, Prof. Mch. Design and Dir. Mech. Labs., Mass. Inst. of Tech.
 Shedd, Frank Edson, V. P. and Ch. Engr., Lockwood, Greene & Co., Industrial and Hyd. Engrs., 93 Federal St.
 Sherburne, Kenneth, Asst. Engr., Sturtevant Mill Co., Harrison Sq.
 Siner, J. B., Factory Ins. Appraiser, Rm. 510, 31 Milk St.
 Smith, Ephraim, Colonial Steel Co., 84 High St.
 Smith, Sidney L., Mech. Engr., 90 Elm Hill Ave., Roxbury.
 Snow, Sylvester M., Snow & Humphreys, Rm. 62, 85 Water St.; also Providence, R. I.
 Snow, Walter B., Publicity Engr., 170 Summer St.
 Snow, Wm. Gage, N. E. Mgr., Warren Webster & Co., of Camden, N. J., Pa. Mut. Bldg.
 Starkweather, Wm. G., N. E. Mgr., C. H. Wheeler Mfg. Co., A. L. Ide & Sons, 53 State St.
 Stoddard, Geo. Howland, Treas. and Mgr., Quincy Market Cold Storage & Warehouse Co., 133 Commercial St.
 Taft, Theo. H., Instr. Mech. Engrg., Mass. Inst. of Tech.
 Tenney, Albert Ball, V. P., Malden Elec. & Suburban Gas & Elec. Co., 84 State St.
 Thomas, Edward G., Engr., Choralcelo Mfg. Co., 33 Broad St.
 Thompson, Edward C., Genl. Mgr., Victor Tire Traction Co., 16 State St.
 Titcomb, Roland Elbert, Walworth Mfg. Co.
 Tobin, Robert P., Ch. Tech. Dept., Vacuum Oil Co., 49 Federal St.
 Tolman, James P., Pres., Samson Cordage Wks., 88 Broad St.
 Tufts, Leonard, First V. P., Am. Soda Fountain Co., 282 Congress St.; also Pinehurst, N. C.
 Walsh, Thomas J., Stone & Webster Engrg. Corp.; also Ansonia, Conn.
 Walworth, Arthur C., Pres., Walworth Constr. & Supply Co., 100 Pearl St.
 Warner, Robt. L., Warner, Tucker & Co., 85 Devonshire St.
 Watson, Herbert L., Sales Engr., Allis-Chalmers Co., 50 Congress St.
 Watson, Wm., Secy., Am. Acad. Arts and Sci., 107 Marlborough St.
 Webber, William Oliver, Cons. Engr., 432 Exch. Bldg.
 Whaley, W. B. Smith, Mech. Engr., 1012 Tremont Bldg.
 Whiting, Charles W., Cons. Engr., 33 Broad St.
 Williams, Llewellyn, Supt. Engr., United Fruit Co., 131 State St.
 Williston, Belvin Thomas, Ch. Draftsman, Hancock Inspirator Co., 23 Watson St.
 Wilson, Archibald H., Asst. Ch. Draftsman, Stone & Webster Engrg. Corp., 147 Milk St.
 Winther, Chas. A. G., Mech. Engr., Mfrs' Agt., 170 Summer St.
 Woodbury, C. J. H., Cons. Engr., 45 Milk St.
 Woods, Frank F., Pres. and Treas., S. A. Woods Mch. Co.
- BRANT ROCK.**—Kelman, John H., Supt. Constr., Natl. Elec. Signaling Co.
- BROCKTON.**—Washburn, William S., 1363 Main St., Campello Sta.
- BROOKLINE.**—Appleton, Chas. B., Mech. Engr., Netherlands Rd.
 Baldwin, Stephen W., Engr., 29 Hyslop Rd.
 Kenrick, Alfred Eugene, Kenrick Bros., 214 Washington St.

- CAMBRIDGE.**—Brooks, Edwin C., Supt., Water Wks., City Hall.
 Crothers, Charles Edward, Jr., Mech. Engr., 1663 Cambridge St.
 Gale, Horace B., Ch. Engr., Simplex Elec. Htg. Co., 85 Sidney St.
 Hollis, Ira N., Prof. Engrg., Harvard Univ.
 Kennedy, F. Lowell, Asst. Prof. Drawing and Mch. Design, Harvard Univ.
 Leavitt, E. D., Cons. Engr., 33 Garden St.
 Macintire, Horace Jas., Instr. Engrg. Dept., Harvard Univ., Pierce Hall.
 Markham, Edward R., Instr. Mech. Engrg., Rindge Manual Training Sch., Harvard Univ.
 Marks, Lionel S., Prof. Mech. Engrg., Harvard Univ.
 Mellen, Edwin D., Central Sq.
 Swain, George F., Prof. Civ. Engrg., Graduate Sch. Applied Science, Pierce Hall, Oxford St., Harvard Univ.
 Whiting, S. B., 11 Ware St.
- CAMBRIDGEPORT.**—Long, Jeremiah C., Ch. Engr., Boston Woven Hose & Rubber Co.
 Norris, Almon E., Ch. Engr., Mead-Morrison Mfg. Co., 31 Main St.
- CHARLESTOWN.**—Fallon, John Bernard, Jr., Supt., 50 Cambridge St.
- CHELSEA.**—McEvoy, Dermot, Revere Rubber Co.
- CLINTON.**—Hosmer, Amos G., Mech. Supt., Lancaster Mills, 1 Green St.
- DORCHESTER CENTER.**—Mason, William B., Pres., Mason Regulator Co., 1190 Adams St.
- EAST BOSTON.**—Middleton, Percy Howe, V. P., H. I. Crandall & Son Co., 102 Border St.
 Monteagle, Robt. Chas., Ch. Engr., Atlantic Wks.
 Robinson, Edward P., Supt., Atlantic Wks., 80 Border St.
 Tobey, Wm. L., Mech. Engr., Lockwood Mfg. Co.
- EAST BRIDGEWATER.**—McLean, Robert Walter, Carver Cotton Gin Co.
- EAST CAMBRIDGE.**—Aborn, George P., Mgr. Blake & Knowles Steam Pump Wks.
 Baker, Dickerson G., Wks. Mgr., Blake & Knowles Steam Pump Wks.
 Murray, Arthur F., Blake & Knowles Steam Pump Wks.
 Nickerson, Ralph R., Geo. F. Blake Mfg. Co.
 Parker, Austin Wilbur, Mech. Engr., Blake & Knowles Steam Pump Co.
 Perkins, George Howard, Supt. Refineries, Warren Bros. Co., Potter St.
 Worcester, H. E., Supt., Revere Sugar Refinery.
- FALL RIVER.**—Gilmore, George Farley, Local Engr., Am. Thread Co.
 Henry, William Thomas, P. O. Box 152, and 30 Borden Block.
- FITCHBURG.**—Dillon, Frederick N., Treas., D. M. Dillon Steam Boiler Wks.
 Sheldon, Thos. C., Pres., Fitchburg Duck Mills.
 Simonds, Daniel, Pres., Simonds Mfg. Co., 35 North St.
- GREENFIELD.**—Wells, Frank O., Pres. and Treas., Wells Bros. Co.
- HOLYOKE.**—Chase, Henry Mayo, Mech. Engr., Deane Steam Pump Co.
 Fleming, Wills M., Ch. Draftsman, Deane Steam Pump Co.
 Jenness, Chas. Harvey, Designing Engr., Deane Steam Pump Co.
 Lobben, Peder, Mech. Engr., P. O. Box 243.

HOLYOKE (Continued)

Miller, George H., Genl. Engr., Am. Thread Co., 549 Main St.
 Newcomb, Chas. L., Pres., Mech. Engr. and Genl. Mgr., Deane
 Steam Pump Co.

Newcomb, Chas. L., Jr., Deane Steam Pump Co.

Newcomb, Robert E., M. E., Deane Steam Pump Co.

HOPEDALE.—Burbank, Louis S., Asst. Ch. Draftsman, M. E. Draper Co.**HYDE PARK.**—Bixby, Walter, Mech. Engr., 17 Brainard St.

Dowst, F. B., B. F. Sturtevant Co.

Sparrow, Ernest P., B. F. Sturtevant Co.

Suck, Adolph, Arch. and Engr., 94 Arlington St.

INDIAN ORCHARD.—Shirley, Robert, Wks. Mgr., Chapman Valve Mfg. Co.**LAWRENCE.**—Diman, Geo. Henry, Cons. Engr., Wood Worsted Mill.

Emerson, H. B., Engr. and M. M., Arlington Mills.

Jealous, Arthur R., Asst. Elec. Engr., Am. Woolen Co.

Mellor, Hiram L., Pres. and Mgr., Lawrence Pump & Eng. Co.

Parker, Walter Edward, Agt., Pacific Mills.

Schwarz, Franz H., Mech. Engr., Lower Pacific Mills.

Wallace, Fred A., M. M., Pacific Mills.

LEE.—Stevenson, Louis T., Engr., Mountain Mill Paper Co.**LEXINGTON.**—Watson, Frank.**LOWELL.**—Ames, Geo. Edgar, Mech. Supt., Lawrence Mfg. Co.

Connell, John J., Agt., Tremont & Suffolk Mills.

Nourse, Franklin, Agt., Lawrence Mfg. Co.

Perkins, G. Hawthorne, Head Textile Engrg. Dept., Lowell Textile Sch.

Safford, Arthur Truman, Asst. Engr., Locks and Canals, Cons.
 Hyd. Engr., 66 Broadway.

Stevens, John A., Cons. Engr., 107 Merrimack St.

LYNN.—Hanzlik, Henry J., Steam Turbine Dept., Genl. Elec. Co.

Johnson, Werner, Asst. Engr., Turbine Dept., Genl. Elec. Co.

Ord, Henry C., Genl. Elec. Co.

Smith, Charles P., Mech. Engr., Genl. Elec. Co.

White, James A., Genl. Elec. Co.

MELROSE.—Higgins, George F., 41 Mt. Vernon St.**MERRICK MILLS.**—Bennett, George G., Engrg. Dept., Am. Thread Co.**MITTINEAGUE.**—Barstow, Francis Loring, Ch. Engr., Mittineague Paper Co.; also Woronoco.**NEW BEDFORD.**—Colburn, George L., Mech. Dept., New Bedford Textile Sch.

Cushman, Herbert E., Treas. and Genl. Mgr., Morse Twist Drill
 & Mch. Co.

Gladding, Wanton Martin, Mech. Supt., Morse Twist Drill & Mch.
 Co.

Reed, Fred M., Mech. Engr., Morse Twist Drill & Mch. Co.

Stetson, George R., Pres. and Genl. Mgr., New Bedford Gas &
 Edison Light Co., 125 Middle St.

NEWTON.—Baker, Charles F., 146 Jewett St.**NEWTON CENTRE.**—Banfield, Frederic E., Jr., Mech. Engr., Saco & Pettee Mch. Co.**NEWTON HIGHLANDS.**—Thomson, Sanford E., Cons. Engr.**NEWTON UPPER FALLS.**—Mills, Charles, Supt. of Wks., Saco & Pettee Mch. Shops.**NORTH ADAMS.**—Hunter, James D., V. P., Hunter Mch. Co.

- NORTH PLYMOUTH.**—Damon, John H., M. M. and Expt. on Rope Transmission, Plymouth Cordage Co.
- PITTSFIELD.**—Abbott, Chas. Carroll, Mgr., Triumph Voting Mch. Co.
 Mitchell, Guy Edward, General Mgr., Alden Sampson Mfg. Co.
 Power, Pomeroy W., Mech. Engr., Gen. Elec. Co.
 Robbins, John L., Asst. Engr., Robbins, Gamwell & Co.
 Sponsel, C. W., Mfg. Supt., Gen. Elec. Co.
- QUINCY.**—Bailey, T. S., Ch. Engr., Elec. Boat Co.
 Crain, John J., Elec. Engr., Fore River Shipbuilding Co., 86 Revere Rd.
- READVILLE.**—Clancy, Geo. W. A., Shop Insp., New Haven System.
- SOMERVILLE.**—Boyer, Chas. Warren, Mech. Engr., F. H. & C. W. Boyer, Box 10.
 Eldredge, A. H., Cons. Engr., N. E. States Office, North Packing & Prov. Co.
- SOUTH BOSTON.**—Blood, Chas. W. H., V. P. and Mech. Engr., S. A. Woods Mch. Co., Door St.
 Durfee, Walter C., Exp. Engr., Walsworth Mfg. Co.
 Hibbard, Thomas, Mech. Engr. and Treas., Geo. Lawley & Sons Corp., City Point.
 Mattice, Asa M., Mgr. of Wks., Walworth Mfg. Co.
 Osteman, Carl G., Mech. Engr. and Designer, S. A. Woods Mch. Co.
 Tilden, James A., Genl. Mgr., Hersey Mfg. Co.
 Withington, Sidney, Exper. Dept., Walworth Mfg. Co.
- SOUTH FRAMINGHAM.**—Keyes, Frederic H., Genl. Mgr., Robb-Mumford Boiler Co.
 Scott, Henry Francis, M. M., Dennison Mfg. Co.
- SOUTH YARMOUTH.**—Davis, Chas. Henry.
- SPRINGFIELD.**—Bausch, William H., M. E., and in charge sales, Confectioner's Mchy. & Mfg. Co.
 Bocorselski, F. E., Supt. and Designer, Bausch Mch. Tool Co.
 Damon, Walter Henry, Supt. of Generating, United Elec. Lt. Co., 87 Greenwood St.
 Fenner, David C., Knox Auto. Co., 53 Wilbraham Rd.
 Green, Samuel M., Cons. Engr., Hitchcock Bldg., 318 Main St.
 Leitch, Meredith, Cons. Engr., 33 Lyman St.
 Rider, Thomas J., Partner, J. B. Chapman Co., 51 Taylor St., P. O. Box 1409.
 Ryder, Malcolm P., Engr., Witherbee Igniter Co., Arch St. and Birnie Ave.; also White Plains.
 Threlfall, Wm. V., 601 Hitchcock Bldg.
- TAUNTON.**—Collins, Edward C., Mason Mch. Wks.
 Cutter, George Albert, Genl. Mgr., Cell Drier Mch. Co.
 Greensmith, Jas. E., Genl. Supt., Mason Mch. Wks.
- TUFTS COLLEGE** P. O.—Anthony, Gardner C., Dean, Engrg. Sch., Tufts College.
 Chase, Charles H., Prof. Steam Engrg., Tufts College.
 Stewart, Chas. E., Asst. Prof. Mech. Arts, Tufts College.
- WALTHAM.**—Burnham, Harry A., Ridgewood Terrace.
 Eaton, Henry Chas., Foreman, Engrg. Dept., Waltham Watch Co.
 Monaghan, James F., Mech. Engr., Waltham Bleachery & Dye Wks.
- WATERTOWN.**—Bitterlich, Walter J., Ch. Draftsman, Hood Rubber Co.
- WESTFIELD.**—Cushing, Geo. H., Genl. Supt., H. B. Smith Co.
- WEST LYNN.**—Alexander, Magnus W., Gen. Elec. Co.
 Moss, Sanford A., Engr., Turbine Research Dept., Genl. Elec. Co.
 Rice, Richard H., Genl. Elec. Co.

WEST SOMERVILLE.—Brooks, Louis C., 12 Fairmount Ave.

WEST SPRINGFIELD.—Chamberlain, Harry M., N. Y. C. & H. R. R. R.

WINCHENDON.—Whitney, Baxter D., Partner, Baxter D. Whitney & Son.

Whitney, Wm. M.

WOLLASTON.—Stevens, Jesse F., 14 Prospect Ave.

WORCESTER.—Alden, George I., Treas. and Cons. Engr., The Norton Co.

Allen, Charles M., Prof. Hyd. Engrg., Worcester Poly. Inst.

Angstrom, C. Jonas, Designing Engr., Am. Steel & Wire Co., 94 Grove St.

Backlin, Axel F., Asst. to Ch. Engr., Am. Steel & Wire Co.

Bird, William W., Prof. Mech. Engrg. and Dir., Washburn Shops, Worcester Polytechnic Inst.

Carroll, Elbert Henry, Supt., Morgan Constr. Co., 21 Lincoln St.

Coghlin, John P., Pres. and Treas., Coghlin Elec. Co., 234 Main St.

Daniels, Fred Harris, Ch. Engr., Am. Steel & Wire Co., 94 Grove St.

Edwards, Victor E., V. P., Morgan Constr. Co., 21 Lincoln St., Sta. A.

Fairfield, Howard P., Instr., Worcester Poly Inst.

Gallagher, Robert Thomas, Ch. Draftsman, Engrg. Dept., Am. Steel & Wire Co.

George, J. Rowley, Ch. Engr., Morgan Constr. Co., 21 Lincoln St.

Gifford, Albert J., Partner, W. H. Leland & Co.

Higgins, John W., Secy. and Genl. Mgr., Worcester Pressed Steel Co., North Ave.

Higgins, Milton P., Pres., Norton Emery Wheel Co.

Hill, Edgar Logan, Asst. Dist. Engr., Am. Steel & Wire Co.

Jefferies, E. A. W., Mech. Engr., Morgan Constr. Co.

Larsson, Thure L. F., Mech. Engr., 34 Holden St.

Latham, Harry M., Mech. Engr., Am. Steel & Wire Co.

Logan, James, First V. P. and Genl. Mgr., U. S. Envelope Co., 75 Grove St.

Merkt, G. Adolf, Designing Engr., Am. Steel & Wire Co.

Morgan, Charles H., Pres., Morgan Constr. Co., and Morgan Spring Co., 21 Lincoln St.

Morgan, Paul B., Treas., Morgan Constr. Co., 21 Lincoln St.

Morgan, Ralph Landers, Pres. and Ch. Engr., R. L. Morgan Co., Cambridge St.

Morse, William Horace, 167 Pleasant St.

Parker, Chas. D., Mech. Engr., A. Burlingame Co., 22 Cypress St.

Rawson, Louis W., Supt., Washburn Shops, Worcester Poly. Inst.

Read, Carleton A., Prof. Steam Engrg., Worcester Poly. Inst.

Reed, Chester Turner, Pur. Engr., Reed & Prince Mfg. Co.

Reed, Edgar Howard, Supt., Reed & Prince Mfg. Co., Duncan Ave.

Rice, Alva C., Hyd. and Mech. Engr., State Mut. Bldg.

Rockwood, Geo. I., Cons. Engr., 62 Summer St.

Scott, Geo. H., Instr., Worcester Sch. of Trades, Armory Sq.

Searle, Wilbur C., Heald Mch. Co.

Smith, Alton Lincoln, Prof. Drawing and Mch. Design, Worcester Poly. Inst.

Smith, Harold B., Prof. Elec. Engrg., Dir. Elec. Eng. Dept., Worcester Poly. Inst.

Wilson, J. Fred., W. & S. Mfg. Co., Die Making and Metal Stamp-
ing, 9 Hunt St.

Wyman, Horace, Cons. Engr., 20 Harvard St.

MICHIGAN

- ANN ARBOR.—Allen, John Robins, Prof. Mech. Engrg., 215 New Engrg. Bldg.
 Bursley, Joseph Aldrich, Asst. Prof. Mech. Engrg., Univ. of Mich.
 Cooley, M. E., Prof. Mech. Engrg., Dean, Dept. of Engrg., Univ. of Mich.
 Denison, Charles S., Prof. Stereotomy, Mechanism and Drawing, Univ. of Mich.
 Emswiler, John Edward, Instr., Mech. Engrg., Univ. of Mich.
 Fessenden, Chas. Horace, Inst. Mech. Engrg., Univ. of Mich., Rm. 333, New Engrg. Bldg.
 Knight, Alfred H., Asst. Prof. Mech. Engrg., Univ. of Mich.
 Miggett, William Lincoln, Prof. Shop Practice and Supt. Engrg. Shops, Univ. of Mich.
 Moyer, James A., Asst. Prof. Mech. Engrg. in charge Mech. and Hyd. Labs., Univ. of Mich.; also Norristown, Pa.
 Pinner, Seymour W., Instr., Univ. of Mich.
 Ramsay, James D., Ret., 515 Church St.
- BATTLE CREEK.—Metcalf, F. M., Mech. Engr., Am. Steam Pump Co.
- BAY CITY.—Howlett, Lewis G., Supt., Industrial Wks.
 Perry, Ernest Blackman, Mgr., Industrial Wks.
- CALUMET.—Williams, Howard E., Ch. Draftsman, Calumet & Hecla Min. Co.
- DETROIT.—Arnold, Edwin E., Ch. Engr., Metal Products Co.
 Baldwin, Abram T., Coke and Coal Dept., Solvay Process Co.
 Barber, Clarence M., C. E., Smith, Hinchmann & Grylls, Archs. and Engrs.
 Barnes, Stuart Gray, Mgr., Solvay Process Co.
 Barton, Henry L., V. P., Metal Products Co., 226 Abbott St.
 Beall, Frank F., Asst. Factory Mgr., Packard Motor Car Co.
 Bigelow, Frank B., Sales Mgr., Murphy Iron Wks.
 Bornholt, Oscar Charles, Mech. Engr., Ford Motor Co., Piquette Ave. and Beaubien St.
 Bourquin, James F., Asst. Supt., Chalmers-Detroit Motor Co.
 Burgess, Edward W., Metzger Motor Car Co.
 Coffin, Howard E., V. P., Chalmers-Detroit Motor Co.
 Conant, Wm. S., Cons. Engr., Bank Chambers, 80 Griswold St.
 Coon, Thurlow E., Mgr. Detroit office, Ball Eng. Co., 1809 Ford Bldg.
 Decker, Edward P., Factory Mgr., Kemiweld Can Co.
 Doughty, A. J., Factory Mgr., Burroughs Adding Mch. Co.
 Dow, Alex, V. P. and Genl. Mgr., Edison Ill. Co., 18 Washington Ave.
 Dunham, George W., V. P. and Cons. Engr., Chalmers-Detroit Motor Co.
 Dwyer, Emmet, Second Asst. Supt., Michigan Stove Co.
 Evans, Henry O., Contr. and Designing Engr. Spec. Mch., The Charlevoix 306.
 Farmer, Thos., Warner & Swasey Co.
 Foster, Horatio A., Detroit United Ry., 12 Woodward Ave.
 Grimes, George Lyman, Pres. and Treas., Midland Mch. Co.
 Hazelton, William S., 475 Second Ave.
 Hinchman, Theodore H., Jr., Cons. Engr., 708 Washington Arcade.
 Hodge, Harry S., Pres., Detroit Twist Drill Co.
 Jackson, Roscoe B., Treas. and Genl. Mgr., Hudson Motor Car Co., Mack and Beaufait Aves.

DETROIT (Continued)

- Joy, Francis B., Supt., Detroit Htg. & Ltg. Co.
 Kahn, Julius, Pres., Trussed Concrete Steel Co., Trussed Concrete Bldg.
 Kales, Wm. Robert, Ch. Engr., Whitehead & Kales Iron Wks., Randolph and Franklin Sts.
 Keep, William J., Supt., Mich. Stove Co.
 Keller, E. E., Pres., Detroit Insulated Wire Co., and Metal Products Co.
 Kirby, Frank E., Engr., 609 Stevens Bldg.
 Leland, Henry Martin, Genl. Mgr., Cadillac Motor Car Co., 1343 Cass Ave.
 Lyman, Elihu Root, Supt., U. S. Heater Co.
 McColl, J. R., Mech. Engr., Am. Blower Co.
 Marot, Edward H., Supt. of Agencies, Hyatt Roller Bearing Co., 801 Trussed Concrete Bldg.
 Mason, Frederick H., Spec. in Feed Water Purification and Htg. Power Plant Specialties, Brick and Concrete Chimney Constr., 612 Moffat Bldg.
 Mattsson, A. George, Ch. Engr., Great Lakes Engrg. Wks.
 Nicklin, Ernest W., Mech. Engr., Detroit Brass Wks.
 Oliver, E. C., 519 Cass Ave.
 Pendry, W. Allen, Cons. Engr., 65 Farnsworth Ave.
 Pessano, Antonio C., Pres. and Genl. Mgr., Great Lakes Engrg. Wks.
 Reid, Edward Snover, Engr., Northern Eng. Wks.
 Richards, Chas. Dexter, Asst. Engr. of Tests, Solvay Process Co.
 Russel, Walter S., Pres. and Genl. Mgr., Russel Wheel & Fdy. Co., Chene St. and Belt Line R. R.
 Sibley, Mark M., Secy. and Treas., Sibley-Houfley Mch. Co., 180 Brush St.
 Soper, Ellis, Pres., The Soper Co., 1110-11 Ford Bldg.
 Still, Frederick R., Ch. Engr. and Secy., Am. Blower Co.
 Stoughton, Edwin R., Baird & West, 149 Jefferson Ave.
 Stringham, Joseph S., Constr. Engr., Solvay Process Co.
 Taylor, Cecil Hamelin, Designing Engr., Chalmers-Detroit Motor Co.
 Thrall, George C., Genl. Mgr., Taylor Water Tube Boiler Co.
 Treat, Charles Henry, Am. Blower Co.
 Vincent, Jesse Gurney, Supt. of Inventions, Burroughs Adding Mch. Co.
 Walker, Frederick Wiley, V. P. and Ch. Engr., Comstock, Haigh, Walker Co., 1018-20 Ford Bldg.
 Weil, Charles L., Cons. Engr., 616 Union Trust Bldg.
 Whitaker, Henry E., Mech. Engr., Parke, Davis & Co.
 Wills, C. Harold, Ch. Engr. and Factory Mgr., Ford Motor Co.
 DOWAGIAC.—Beckwith, Arthur K., Genl. Supt., Round Oak Stove Wks.
 EAST LANSING.—Bissell, Geo. W., Prof. Mech. Engrg., and Dean of Engrg., Mich. Agri. College.
 Polson, Joseph A., Asst. Prof. Mech. Engrg., Mich. Agr. College, P. O. Box 166.
 Wilcox, C. C., Foreman Mch. Shop, P. O. Box 158.
 FENTON.—Scott, Walter G., Allis-Chalmers Co.
 FLINT.—Mott, Chas. Stewart, Pres. and Genl. Mgr., Weston-Mott Co.
 GLADSTONE.—Slining, George J., Genl. Supt., Cleveland Cliffs Iron Co.

GRAND RAPIDS.—Cole, Dwight S., First Asst. Engr., in charge Design and Tests, Dake-Am. Steam Turbine Co., 137 Grandville Ave.

Reeve, Charles D., Supt., Grand Rapids Brass Co., 156 Court St. Tower, Daniel W., Pres., Grand Rapids Brass Co., 142 Court St.

HOUGHTON.—Corbett, R. H., Rep., Nordberg Mfg. Co., and 126 Garnet St.

Glanville, Jas. Gundry, Supt., Isle Royale Stamp Mill.

Hood, Ozni Porter, Prof. Mech. and Elec. Engrg., Mich. College of Mines.

HUBBELL.—Burgan, A. L., Mill Supt., Tamarack Min. Co., Osceola Cons. Mfg. Co., Ahmuck Min. Co.

ISHPEMING.—McClure, O. D., M. M., Cleveland Cliffs Iron Co.

JACKSON.—Frost, Edward J., Pres. and Genl. Mgr., Frost Gear & Mch. Co., Horton and Tyson Sts.

Maytham, Walter John, Ch. Engr., Cowham Engrg. Co., Carter Bldg.

Wood, Erwin E., Pres. and Genl. Mgr., Walcott & Wood Mch. Tool Co.

LANSING.—Harrington, Norman T., Ch. Engr. and Factory Mgr., Seager Eng. Wks., 700 Townsend St.

Rice, George W., Engrg. Dept., Seager Eng. Works.

Seager, James B., Genl. Mgr., Seager Eng. Works.

Thomas, Horace T., Designing Engr., Reo Motor Car Co.

Zimmerman, W. H., Genl. Mgr., Mich. Power Co.

MUSKEGON.—Albert, Otto, Ch. Draftsman, Shaw Elec. Crane Co.

Bates, Albert Henry, Draftsman, Shaw Elec. Crane Co.

Holmes, Walter G., Ch. Draftsman, Linderman Mch. Co.

Sawyer, Harry, Engr., Shaw Elec. Crane Co.

Young, John T., Genl. Mgr., Muskegon Traction & Light Co.

OWOSSO.—Kryzanowsky, Constant J., Ch. Engr., Reliance Motor Truck Co., Cor. King and Adams Sts.

PAINESDALE.—Rankin, William A., Elec. Engr., Copper Range Consol. Co.; Ch. Engr., Copper Range Elec. Co.

PORT HURON.—Weber, O. L. E., Mgr., Mich. Sulphite Fibre Co.

SAGINAW.—Adams, Thomas D., Werner & Pfeleiderer.

Alger, Harley C., Supt., Willcox Engrg. Co.

Fisher, Elbert C., V. P. and Genl. Mgr., Wickes Boiler Co.

Willcox, George Bingham, Pres. and Genl. Mgr., Willcox Engrg. Co., Willcox Engrg. Co. Bldg.

SIBLEY.—Church, Austin, Secy., Sibley Quarry Co.; V. P. and Secy., Sibley Brick Co.

VULCAN.—Armstrong, Frank Hall, Mech. Engr., Penn Iron Min. Co., Repub. Iron Co.

MINNESOTA

DULUTH.—Crane, William Edward, M. E., P. O. Box 143.

Fuller, Floid M., Treas., Duluth Show Case Co.

Hugo, T. W., Cons. Engr., 221 W. Sixth Ave.

McGiffert, John Rutherford, Secy. and Treas., Clyde Iron Wks., 29th Ave., W., and Mich. St.

Rumsey, Spencer S., Engr. of Constr., Oliver Iron Min. Co., 610 Wolvin Bldg.

Ryerson, William N., Genl. Mgr., Great Northern Power Co.

Wessinger, Henry J., Ch. Engr., Oliver Iron Min. Co., 610 Wolvin Bldg.

- MINNEAPOLIS.**—Brown, Edwin Hacker, Cadwell & Brown Co., 1045-51 Security Bank Bldg.
 Cox, Claude E., Engr. and Factory Mgr., H. E. Wilcox Motor Car Co.
 Craig, Robert, Sales Engr., 218 Third Ave.
 Flather, John J., Prof. Mech Engrg., Univ. of Minn.
 Garbett, Joseph, Mech. Engr., Minn. Steel & Mchy. Co.
 Hvid, Rasmus M., Engr., Mech. Dept., Minneapolis Steel & Mchy. Co.
 Joslyn, Paul L., Minneapolis Steel & Mchy. Co.
 Kavanaugh, Wm. H., Exper. Engrg., Univ. of Minn.
 Macdonald, Duncan H., Genl. Supt., Mech. Dept., Minneapolis Steel & Mchy. Co.
 Staude, Edwin G., Pres. and Managing Dir., E. G. Staude Mfg. Co., 526 S. Fifth St.
ST. PAUL.—Doty, Paul, V. P. and Genl. Mgr., St. Paul Gas Lt. Co.
 Gardner, L. H., Cons. Engr., 1882 Selby Ave.
 Johnson, Ed. E., Mfr., Wells Screens, Filmore Ave., and Starkey St.
 Symons, Wilson E., Supt., M. P. and Mchy., Chicago Great Western Ry., Met. Opera House Blk.
 Toltz, Max E. R., Manistee & Grand Rapids R. R. Co., 702 Manhattan Bldg.

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 Churchill, Charles O., Supt., Georgian Mfg. Co.
 Cobb, Geo. H., Supt., N. Y. Transit Co., Rm. 802 Kilmer Bldg.
 Conlee, George D., Supt., Binghamton Gas Wks., 40 Chenango St.
 Harris, Job Frederic Wilson, Cons. Engr., 21 Goethe St.
 BROOKLYN.—Abbott, Frederick Bancroft, 490 Seventh St.
 Aiken, Charles W., Secy. and Treas., Houchin-Aiken Co., Engrs. and Machinists, 35 53d St.
 Baldwin, J. Edward, Secy., Fulton Eng. Co.; Sales Mgr., Kent Eng. Co., 39 Gold St.
 Bennett, Geo. L., 290 Linden Ave., Flatbush.
 Booraem, J. Van Vorst, Cons. Engr., 204 Lincoln Pl.
 Burr, John T., 429-431 Kent Ave.
 Burr, Jonathan Sturges, J. T. Burr & Son.
 Corbett, Chas. H., V. P., Continental Iron Wks.

BROOKLYN (Continued)

- Covell, Harry N., Supt., Lidgerwood Mfg. Co., Dikeman St.
 Cremer, James M., 410A Classon Ave.
 Davidson, Marshall T., Pres., M. T. Davidson Co., 43-45 Keap St.
 Davis, Edwin Halsted, Ch. Draftsman, M. T. Davidson Co.
 Davis, George H., Designer, Inspr. Public Wks. Office, Brooklyn Navy Yard.
 Davis, Robt. G., Cons. and Constr. Engr., 454 48th St.
 Deming, Wm. H., Mech. Engr., Continental Iron Wks.
 Dixon, Charles F., Constr. Engr., 5705 14th St.
 Dobson, W. J. M., Cons. Mech. Engr., 398 Adelphi St.
 Doughty, George A., Secy., Logan Iron Wks., 52 Commercial St.
 Drewett, Wm. A., Supt., M. T. Davidson Co., 43-53 Keap St.
 Engel, Godfrey, Constr. Engr., Am. Sugar Ref. Co., Foot S. Fourth St.
 Engel, Louis G., 169 Columbia Hts.
 Ennis, Wm. Duane, Prof. Mech. Engrg., Poly. Inst.
 Fladd, Frederick C., Traveling and Cons. Engr., E. W. Bliss Co., 17 Adams St.; also New Canaan, Conn.
 Flinn, Thomas F., Hanbury & Flinn Iron Wks., 216-236 57th St.
 Gabriel, Charles R., Cons. and Designing Engr., E. W. Bliss Co.
 Greene, David Joy, Treas., 300 Oakland St.
 Grossman, Albert., V. P., Pioneer Iron Wks.
 Haglund, Gustav, 79 Garfield Pl.
 Hall, Frederick Arthur, V. P., and Treas., Cameron Engrg. Co.
 Hamilton, James V., 54 Beard St.
 Hillmann, Gustav, Naval Arch., 470 Greene Ave.
 Howard, Chas. Alton, Mgr. Turbine Dept., E. W. Bliss Co., Adams and Plymouth Sts.
 Huff, Slaughter W., 259 Franklin Ave., and 569 St. Marks Ave.
 Jewell, Chas. W., Engr., Dept. of Water Supply, Gas and Elec.
 Kaup, Wm. Joseph, Head of Mch. Constr., Pratt Inst.
 Kemble, Parker H., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St.
 Kent, Robert Sayre, Engr. in Charge, Arbuckle Bros. Sugar Refinery.
 Knapp, Edwin C., Asst. Engr., care E. W. Bliss Co., 17 Adams St.
 Knight, Geo. Lawrence, Designing Engr., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St.
 Langlotz, Charles, Mech. Supt., Brooklyn Cooperage Co., 142 Kent Ave.
 Langlotz, Robert, 78 Delevan St.
 Larkin, Fred A., 570 Ocean Ave., Flatbush.
 Leavitt, Frank M., Cons. Engr., 133 Plymouth St.
 Lenfest, Bertram A., Mech. Engr., 1524 76th St.
 Lockwood, Rutherford T., Engr., Sone & Fleming Wks., Kingsland and Meserole Aves.
 Logan, Frank J., V. P. and Treas., Logan Iron Wks., Commercial St.
 Logan, Wm. J., Logan Iron Wks., Commercial and Clay Sts.
 McFarlan, Edward, 360 Jefferson Ave.
 Maxwell, Max Carson, Head of Dept., Applied Mechanics, Sch. of Science and Tech., Pratt Inst.
 Meissner, Charles F., 262 20th St.
 Mesick, D. W., Prop. and Mgr., Fulton Fdy. & Mch. Co., 25 Furman St.
 Montague, Chas. Dwight, 66 Waldorf Court.
 Moritz, Albert, Comdr., U. S. Navy, Ret., 723 E. 18th St.

BROOKLYN (Continued)

Nash, Lewis H., Mech. Engr., Natl. Meter Co., 42d St. and First Ave.; also Pres., Nash Engrg. Co., 40 Water St., South Norwalk, Conn.

Norris, J. H., 4207 First Ave.

Obert, Casin W., Secy. and Treas., Brooklyn Mch. Co., 963 Atlantic Ave.

Ould, John Geo., Supt. and Ch. Engr., Polhemus Memorial Clinic.

Patton, John H., Engr. and M. M., N. Y. Tanning Extract Co., West and Green Sts.

Post, George Adams, Jr., Pres., Post & Rodger Co., 2177 86th St.

Rowland, Charles Bradley, V. P., Continental Iron Wks. (Greenpoint).

Rowland, Thos. F., Jr., Pres., Continental Iron Wks., West and Cayler Sts.

Sar Vant, Wilbur Nason, 16 Verona Pl.

Scott, J. W., Supt., Arbuckle Bros., Foot Jay St.

Scott, Seaton M., 55 Hawthorne St.

Sherman, W. D., M. E., Inventor and Supt., 85-93 Ninth St.

Slawson, Harry H., 345 Eastern Parkway.

Tibbals, Geo. A., Secy. and Treas., Continental Iron Wks.

Tompkins, S., Ch. Engr., C. I. & B. R. R. Co., Franklin and DeKalb Aves.

Ulbricht, T. C., Instr., Engrg. Dept., Pratt Inst.

Viola, Bartholomew, Managing and Ch. Engr., Chem. Wks. of Chas. Pfizer & Co., 11 Bartlett St.

Wardwell, Arthur Soper, Wire Ch., N. Y. & N. J. Telephone Co., and 613 Throop Ave.

White, Herbert J., 439 Eighth St.

Williston, Arthur L., Dir. Dept. Science and Tech., Pratt Inst.

Wood, Frank J., Ch. Engr., Marx & Rawolle's Glycerine Factory, 9 Van Brunt St.

BUFFALO.—Ballin, Alfred E., Asst. Ch. Engr., Snow Steam Pump Wks.

Barker, Fred. Percy, Inspr., U. S. Engr. Office, 540 Federal Bldg.

Bierbaum, Christopher Henry, Cons. Engr., V. P., Lumen Bearing Co.; Pres., Robson Smelting Co.; Pres., Molyneux Mailing Machines Co., 1142 Prudential Bldg.

Bigelow, Myron J., Mech. Engr., Molyneux Mailing Machines Co., 253 Ellicott St.

Booth, Charles A., charge Engrg. Sales, Buffalo Forge Co., Buffalo Steam Pump Co.

Brewster, Frank H., Genl. Supt., U. S. Rubber Reclaiming Wks., 724 Babcock St.

Carrier, Willis H., Ch. Engr., Buffalo Forge Co.

Cloudsley, David B., Asst. to Ch. Engr., Bureau of Water.

Cloudsley, James B., Ch. Engr., Pumping Sta., Bureau of Water.

Coleman, Edgar Park, Steam Engr., Lackawanna Steel Co.

Cooke, George William, Supt., Pierce Arrow Motor Car Co., 1695 Elmwood Ave.

Cooke, Thomas F., M. E., 19 Tupper St.

Danforth, N. L., Treas., John W. Danforth Co., Piping Contrs., 70-72 Ellicott St.

Daugherty, Samuel Bovard, Ch. Draftsman, Gas Eng. Dept., Snow Steam Pump Wks.

Dollar, William M., Cons. Mech. Engr., 90 Erie Co. Bank Bldg.

Gannett, Herbert I., V. P. and Genl. Mgr., Monarch Acetylene Co., 66-70 Exch. St.

BUFFALO (Continued)

- Gath, Andrew L., Branch Mgr., Manning, Maxwell & Moore, Inc., 401 White Bldg.
- Gibney, James W., Supt., W. P. Taylor Co., 218 Ellicott Sq.
- Gregory, Joseph N., Mgr. for Western N. Y., Dearborn Drug & Chem. Wks., 302 Morgan Bldg.
- Hall, Rodney D., Asst. Ch. Engr., Snow Steam Pump Wks.
- Hammond, Richard, Pres., Lake Erie Engrg. Wks., and Lake Erie Boiler Wks.
- Hyman, D., V. P., Empire Limestone Co., Virginia and 4th Sts.
- Jackson, Lucian C., Cons. Gas Eng. Expert, 905 D. S. Morgan Bldg.
- King, W. Grant, V. P., and Genl. Mgr., King Sewing Mch. Co., 254 Court St.
- Laidlaw, Walter, V. P. and Genl. Mgr., Snow Steam Pump Wks.; also Cincinnati, O.
- Landon, A. A., Genl. Supt. Plants, Am. Radiator Co., 1741 Elmwood Ave.
- Luther, Stephen Grinnell, Asst. Ch. Draftsman, Gas Eng. Dept., Snow Steam Pump Wks.
- Miles, Henry Dixon, Pres., Buffalo Fdy. & Mch. Co.
- Morse, Chas. M., Ch. Engr., Buffalo Engrg. Co., 9 Erie Co. Bank Bldg.
- Osgood, John L., Mfr. and Dealer in Mchy. and Tools, 121 and 138 Erie Co. Bank Bldg.
- Powel, Samuel W., Asst. Mch. Engr., Am. Radiator Co.
- Roper, D'Arcy Wentworth, Secy. and Asst. Treas., Great Lakes Constr. Co., Chamber of Commerce Bldg.; also Petersburg, Va.
- Scott, Clarence N., Ch. Engr., Snow Steam Pump Wks.
- Shantz, O. S., Shantz Mfg. Co.
- Sheldon, Samuel B., Genl. Supt., Lacka. Steel Co.
- Sornberger, Edwin C., Sales Engr., Allis-Chalmers Co., Ellicott Sq.
- Stevens, Harold L., Dist. Sales Agt., Lacka. Steel Co., 206 Fidelity Bldg.
- Streeter, Robert Leroy, Instr. Mch. Design., Buffalo Tech. H. S.
- Trefts, John C., Farrar & Trefts, 54-56 Perry St.
- Wilke, William, Mech. and Chem. Engr., 86 Norwood Ave.
- CANASTOTA.—Casler, Herman, Mfr.
- COLLEGE POINT, L. I.—Breckenridge, C. E., care Am. Hard Rubber Co.
- Martens, Ferdinand.
- DANVILLE.—Woolley, Harold O., Draftsman, Power Specialty Co., P. O. Box 92.
- DEPEW.—Richards, Willard F., Mech. Supt., Gould Coupler Co.
- DUNKIRK.—Hequembourg, Charles G., Contr. and Engr., 733 Central Ave.
- ELMIRA.—Flinn, Thos. C., Genl. Supt., Kennedy Valve Mfg. Co.
- Kennedy, M. E., Secy. and Asst. Supt., Kennedy Valve Mfg. Co., E. Water St.
- FISHKILL-ON-HUDSON.—Blackburn, Arthur Henry, Inglewood Manor.
- Challen, Paull Jewill, Cons. Engr., Supt., Tioronda Hat Wks.
- Gillet, Louis Allston.
- Morehouse, William S., 28 Beacon St.
- FLUSHING, L. I.—Doughty, Wm. F., Mech. Engr., 17 Beach St.
- Sabin, Alvah Horton, Chemist, 432 Sanford Ave.
- Wilmerding, Chas. Henry, 20 Sanford Ave.

- GENEVA.—Bowen, Ernest S., V. P. and Genl. Supt., Fay & Bowen Eng. Co.
- GLENS FALLS.—Hoopes, Maurice, Pres., Finch, Pruyn & Co. Kasson, R. S., Pres., Kasson Constr. Co.
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Hemstreet, Geo. P., Supt., Hastings Pavement Co.
- HIGH FALLS, ULSTER CO.—Canniff, William Lester, M. M., T. A. Gillespie Co.
- HILLBURN.—Snow, Wm. W.
- HILLSDALE.—Logan, John D., Cons. Engr., P. O. Box 223.
- HOOSICK FALLS.—Cluett, Sanford L., V. P. and Secy., Walter A. Wood M. & R. M. Co.
- ILION.—Calder, John, Mgr., Remington Typewriter Wks.
Tyler, Chas. C., Wks. Mgr., Remington Arms Co., P. O. Box 507.
- ITHACA.—Barnard, Wm. N., Prof. Steam Engrg., Sibley College, Cornell Univ.
Berna, Geo., Pres., Hygeia Ice Co.
Carpenter, Rolla C., Prof. Expl. Engrg., Sibley College, Cornell Univ.
Diederichs, Herman, Prof. Expl. Engrg., Cornell Univ.
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Kessler, Armin Geo., Instr., Sibley College, Cornell Univ.
Kimball, Dexter Simpson, Prof. Mch. Design and Constr., Sibley College, Cornell Univ.
Morse, Everett Fleet, Morse Thermo Gage Co., 208 E. State St.
Rites, Francis M., Mech. Engr., 516 University Ave.
Smith, Albert W., Dir., Sibley College, Cornell Univ.
Stephenson, Hermann, Instr., Exper. Engrg., Cornell Univ.
- JAMAICA, L. I.—Hart, Frederick L., 53 Clinton Ave.
- LINOLEUMVILLE, STATEN ISLAND.—Melvin, David N., Supt and Engr., Am. Lineoleum Mfg. Co.
- LOCKPORT.—Bishop, Charles R., Secy. and Genl. Mgr., Am. Dist. Steam Co.
- MT. VERNON.—De Ved, Horace W., Asst. to Engr., Westchester Ltg. Co.
Gould, Webster V., N. Y. Rep., Jones & Lamson Mch. Co., of Springfield, Vt., 51 S. 10th Ave.
Kelsey, Walter, 107 E. Lincoln Ave.
Monks, Wm. Douglas, 353 S. Third Ave.
Sanguinetti, Percy A., Cons. Engr., 335 S. First Ave.
- MASPEETH.—Merrill, Geo. H., Secy., Merrill Bros.
- MIDDLETOWN.—Flory, Burton P., Supt. M. P., Ont. & Western Ry. Co.
- MORRISTOWN.—Cruikshank, Barton, Cons. Engr.
- NEWBURGH.—Davison, Clarence M., Mech. Engr., N. I. M. & E. Co.
Penney, Edgar, V. P. and Genl. Mgr., Newburgh Ice Machine & Engine Co.
- NEW YORK.—Abell, Harry Clinton, Mech. Engr., care Emerson, McMillin & Co., 40 Wall St.
Abrams, Herbert T., Mgr., Pump Dept., Ingersoll-Rand Co., 11 Broadway.

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- Adler, Alphonse A., Mech. Draftsman, Pa. T. & T. R. R. Co., 8-10 Bridge St.
- Ahrnke, H. P., Pa. T. & T. R. R. Co., Office Ch. Engr. of Elec. Traction, 8-10 Bridge St.
- Alberger, Louis R., Pres., Alberger Condenser Co., 95 Liberty St.
- Aldcorn, Thomas, Genl. Eastern Sales Mgr., Chicago Pneu. Tool Co., 50 Church St.
- Aldrich, Herbert Lincoln, Pres. and Treas., International Marine Engineering, also The Boiler Maker, 17 Battery Pl.
- Alexander, Harry, Elec. and Mech. Contr. Engr., Astor Court Bldg., 18-20 W. 34th St.
- Alexander, Ludwell Brooke, V. P., Haggerty Contr. Co., Davidson Ave. and Fordham Rd.
- Alford, Leon Pratt, Engrg. Editor, American Machinist., 505 Pearl St.
- Allan, Wm. T., Andrew Allan & Sons, 486 Greenwich St.
- Allen, Carlton B., Ch. Engr., Marine Dept., N. Y., N. H. & H. R. R. Co., Harlem River Sta.
- Allen, Walter C., Genl. Mgr., Yale & Towne Mfg. Co., 9 Murray St.
- Allyn, Robert S., Counsel and Expt. in Pat. Causes, 16 Exch. Pl.
- Almirall, Juan A., Htg. and Vent. Engr., 281 Water St.
- Alsberg, Julius, Asst. to John Bogart, Cons. Engr., 141 Broadway.
- Apps, Chas. Henry, Am. Loco. Co., 30 Church St.
- Artaud, Theodore P., Asst. to V. P. and Pur. Agt., Hudson & Manhattan R. R., 30 Church St.
- Ashley, Frank M., Pat. Atty., and Cons. Engr., Tribune Bldg., 154 Nassau St.
- Atkins, Harold B., Production Engr. and Pub. Acct., 154 Nassau St.
- Atwater, Chris. G., Mech. Engr., Rm. 1213, Whitehall Bldg., 17 Battery Pl.
- Atwood, Geo. D., Mgr., N. Y. office, Wheeler Condenser & Engrg. Co., 149 Broadway, and Pres., Atwood-Rearick Co., 30 Church St.
- Austin, William S., Mech. Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.
- Autenrieth, George C., Instr., Descriptive Geometry and Drawing, City College, 140th St. and Convent Ave.
- Aylsworth, Joseph W., Asst. Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.
- Bacon, Earle C., Cons. and Contr. Engr., Havemeyer Bldg., 26 Cortlandt St.
- Bacon, Frederick T. H., Cons. Engr., 30 Church St.
- Bacon, George W., Mech. Engr., Member of Firm, Ford, Bacon & Davis, 115 Broadway.
- Baker, Charles Whiting, Editor, Engineering News, St. Paul Bldg., 220 Broadway.
- Baker, George Otis, Mech. Engr., Engrg. Co., 30 Church St.
- Baker, William E., W. E. Baker & Co., 27 William St.
- Baldwin, Wm. J., Cons. Engr., 501 World Bldg.
- Barbour, Geo. H., Mech. and Elec. Engr., 42 Broadway.
- Barlow, Elbert S., V. P. and Treas., Hedden Const. Co., 1 Madison Ave.
- Barnaby, Charles W., Cons. Engr., 32 E. 23d St.
- Barratt, Edgar Grant, Pres., Union Bag & Paper Co., 17 Battery Pl.

NEW YORK CITY (Continued)

- Basford, Geo. M., Asst. to Pres., Am. Loco. Co., 30 Church St.
 Basinger, James G., Civ. Engr., 52 Broadway.
 Batchelor, Charles, 33 W. 25th St.
 Bavier, Charles Samuel, Ch. Engr., Metro. Life Ins. Co. Bldg.,
 1 Madison Ave.
 Baylis, Arthur Raymond, M. P. Dept., I. R. T. Co., 59th St. Power
 House.
 Beekman, John V., Genl. Supt., Lidgerwood Mfg. Co., 96 Liberty
 St.
 Behn, Carl, Mgr., Buffalo Refrig. Mch. Co., 126 Liberty St.
 Bell, John Everett, Mech. Engr., Babcock & Wilcox Co., 85 Liberty
 St.
 Bennet, Orville G., Jr., care W. M. Bennet, Bank of Am., 46 Wall
 St.
 Bennis, Charles P., Supt. Bldgs. and Grounds, Teachers College,
 Columbia Univ.
 Benton, George H., Mgr., Valve Dept., The Fairbanks Co.
 Berliner, Richard W., V. J. Hedden & Sons Co., Bldrs. Metro.
 Tower.
 Berryman, Wilson G., Engr., Combustion Utilities Corp., 60 Wall
 St.
 Bibbins, James Rowland, Engr., Pub. Service Com., Tribune Bldg.,
 154 Nassau St.
 Billings, A. W. K., care J. G. White & Co., Inc., 43 Exch. Pl.
 Billings, William Richardson, Secy. and Treas., Alberger Con-
 denser Co., and Alberger Pump Co., 95 Liberty St.
 Blackwell, Josiah Low, 27 William St.; also Baltimore, Md.
 Bliss, Collins P., Prof. Mech. Engrg., N. Y. Univ., and Bliss &
 Griffiths, 225 Fifth Ave.
 Bloemeke, Rudolph B., Ch. Draftsman, N. Y. Edison Co., 55 Duane
 St.
 Blossom, Francis, Partner, Sanderson & Porter, 52 William St.
 Blum, Joseph K., 146 Central Park, W.
 Boehm, Wm. H., Supt., Depts. Steam Boiler and Fly Wheel Ins.,
 Fidelity & Casualty Co., 97 Cedar St.
 Boenig, Robert W., Engr. in charge, Nichols Copper Co., Bor. of
 Queens.
 Boller, Alfred P., Jr., 45 E. 17th St.
 Bolton, Reginald P., Consulting Expt., 527 Fifth Ave.
 Booraem, J. Francis, Secy., Treas. and Mgr., Am. Enam. Brick &
 Tile Co., 1 Madison Ave.; also South River, N. J.
 Bouton, Geo. Innes, Engr., Eastern Dist., Heine Safety Boiler Co.,
 11 Broadway.
 Bowman, Austin Lord, Cons. Engr., 165 Broadway.
 Boyd, James C., Cons. Mech. Engr., Westinghouse, Church, Kerr
 & Co., 10 Bridge St.
 Boyd, John J., Pres., Hudson Engrg. Co., 90 West St., Pres.,
 Foreign Steel Co., 140 Cedar St.
 Boyer, Edwin S., Mech. Engr., office Walter Kidde, Engr.-Constr.,
 140 Cedar St.
 Bradley, W. H., Ch. Engr., Cons. Gas Co., 4 Irving Pl.
 Braine, Bancroft G., Engr., Rail Joint Co., 29 W. 34th St.
 Briggs, James M., 154 Nassau St.
 Brigham, Lucien M., Sales Mgr., 85 Liberty St.
 Brinsmade, Louis L., Eastern Sales Mgr., Westinghouse Mch. Co.,
 165 Broadway.
 Brissell, F. M., Ch. Estimator, John Simmons Co., 110 Centre St.

NEW YORK CITY (Continued)

- Brooks, Paul R., Editor, Eastern Dept., Railway and Engineering Review, 30 Church St.
- Broome, Ernest L., Mech. Engr., Viele, Blackwell & Buck, 49 Wall St.
- Brown, Dickson Q., Tide Water Oil Co., 11 Broadway.
- Brown, Herman Elisha, Ch. Engr., Am. Cement Engrg. Co., 315 Fifth Ave.
- Brown, Howard Hayes, Editor, International Marine Engrg., 17 Battery Pl.
- Brown, Stephen Pearson, Engr. for T. B. Bryson, 165 Broadway.
- Bruckner, Rudolph E., Ch. Engr., Commer. Acetylene Co., 80 Broadway.
- Bruff, Charles E., N. Y. Mgr., Power & Mining Mchy. Co., 115 Broadway.
- Bruyere, Paul Tulane, Supt. Constr. Dept., Standard Plunger Elev. Co., 115 Broadway.
- Bryce, James Wares, Goss & Bryce, 76 William St.
- Buck, Irwin, Mgr., Alcohol Utilities Co., 156 W. 23d St.
- Bulkley, Henry W., Mech. Engr. and Mfr., 141 Broadway.
- Bunnell, Sterling Haight, Wks. Mgr., Griscom-Spencer Co., 90 West St.
- Burns, A. L., V. P., Jabez Burns & Sons, 600 W. 43d St.
- Burr, William H., Cons. Engr., and Prof. Civ. Engrg., Columbia Univ.
- Bushnell, Douglas S., Genl. Supt., Natl. Transit Co., 26 Broadway.
- Caldwell, George B., Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.
- Caldwell, John A., 220 Broadway.
- Carlton, Willard G., Supt. of Power, Elec. Div., N. Y. C. & H. R. R. R., Grand Central Sta.
- Carnegie, Andrew, 2 E. 91st St.
- Carpenter, Chas. U., Pres., Herring-Hall-Marvin Safe Co., 400 Broadway.
- Carse, David Bradley, Pres., David B. Carse & Co., City Investing Bldg.
- Carse, John B., Member Advisory Com., U. S. Steel Corp., 71 Broadway.
- Cary, Albert A., Cons. Mech. Engr., 95 Liberty St.
- Castle, Samuel Northrup, Genl. Elec. Co., 30 Church St.
- Chambers, Frank Ross, Jr., V. P., Duplex Metal Co., 208 Fifth Ave.
- Chambers, Norman C., Sales Dept., Niles-Bement-Pond Co., 111 Broadway.
- Chandler, Irving A., Cons. Engr., 120 Liberty St.
- Chapman, Frank T., Rep., Vento Dept., Am. Radiator Co., Rm. 603, 104 W. 42d St.
- Child, Earnest T., Secy., G. A. Suter & Co., 112 Wooster St.
- Chisholm, John James, Ch. Engr., Waterside Sta., N. Y. Edison Co., 38th St. and First Ave.
- Church, Charles Thos., Asst. Secy., Church & Dwight Co., 63 Wall St.
- Church, E. Dwight, Jr., Secy., Church & Dwight Co., 63 Wall St.
- Church, Elihu C., Lecturer in Civ. Engrg., Columbia Univ.
- Clark, Farley Granger, Elec. Engr., P. T. & T. R. R. Co., Pa. Sta.
- Clark, Walter L., V. P., Niles-Bement-Pond Co. and Pratt & Whitney Co., 111 Broadway.
- Clarke, Chas. L., Pat. Expt., Elec. and Mech. Engr., 120 Broadway.

NEW YORK CITY (Continued)

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- Clarke, Samuel J., 51 Wall St.
- Cobleigh, Henry R., Mech. Editor, The Iron Age, 14 Park Pl.
- Coffin, Frank M., Supt. of Constr. and Repairs, The Maintenance Co., 54-56 Franklin St.
- Cole, Edward S., Hyd. Engr., 220 Broadway.
- Cole, George Wm., Secy., Economic Engrg. Co., 50 Church St.
- Collett, S. D., V. P. and Eastern Mgr., Elev. Supply & Repair Co., 114-116 Liberty St.; also Chicago, Ill.
- Colvin, Fred Herbert, Asso. Editor, American Machinist, 505 Pearl St.
- Comstock, Louis K., Pres., L. K. Comstock & Co., Inc., 50 Church St.
- Cannon, George W., Engr. in charge of work, N. Y. office, Honolulu Iron Wks. Co., 11 Broadway.
- Cook, John P., Asst. Engr., V. P. and Genl. Mgrs.' Office, Rm. 305, Grand Central Sta., N. Y. C. R. R.
- Corry, Wm., V. P., Chrome Steel Wks., 11 Pine St.
- Coryell, Edwin Miers, Supt., 433 E. 23d St.
- Coster, Edwd. Livingston, Broad Exch. Bldg., 25 Broad St.
- Coster, Maurice, Mgr., Export Depts., Westinghouse Elec. & Mfg. Co., and Westinghouse Mch. Co., 165 Broadway.
- Cowperthwait, Allan, A. B. See Elec. Elev. Co., 220 Broadway.
- Cox, Frank G., Engr., Otis Elev. Co., 17 Battery Pl.
- Craig, James, Mech. Engr., 556 W. 34th St.
- Cramp, Edwin S., 127 E. 61st St.
- Crawley, George E., Gold & Stock Telegraph Co., 68 Broad St.
- Creelman, Frank, 447 W. 23d St.
- Cullingworth, Geo. R., M. E., Garvin Mch. Co., Spring and Varick Sts.
- Cummings, Orrie P., Supt. of Const., A. B. See Elec. Elev. Co., 220 Broadway.
- Cunningham, Chas. G., Engr., N. Y. C. & H. R. R. Co., Port Morris Power Sta.
- Curtis, Greely S., Cons. Engr., Fire Dept. Expt., 73 Maiden Lane.
- Dale, Orton G., Mgr., Mead-Morrison Mfg. Co., 149 Broadway.
- Dally, John Horton, Ch. Engr., N. Y. Stock Exch., 10 Broad St.
- Darby, John, Cons. and Designing Engr., 136 Liberty St.
- Darling, Philip Grenville, Mech. Engr., Manning, Maxwell & Moore, Inc., 85-89 Liberty St.
- Darrin, David H., Cons. Engr., 131 Liberty St.
- Dashiell, W. W., Pres. and Genl. Mgr., N. Y. Lubricating Oil Co., V. P., Bayway Refining Co., 116 Broad St.
- Dawley, Clarence A., Cons. Engr., 323 W. 77th St.
- Day, Irvin W., Secy. Am. Mail S. S. Co., 100 Broadway.
- Dearborn, Wm. Langdon, Secy. and Treas., Eastwick Engrg. Co., Ltd., 42 Broadway.
- De Lamater, Oakley R., Secv., Mitchell Motor Co. of N. Y., 1876 Broadway.
- Dewson, Edwd. Henry, Res. Engr., Westinghouse Air Brake Co., 165 Broadway.
- Dickerman, Wm. Carter, V. P., Am. Car & Fdy. Co., 165 Broadway.
- Dickey, Wm. D., Cons. Engr., Rm. F 20, Produce Exch.
- Dickinson, William Noble, Mgr., Foreign Dept., Otis Elev. Co., 17 Battery Pl.

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- Dinkel, Geo., Cons. Engr., Am. Sugar Refining Co., 117 Wall St.
 Dixon, Robert M., Pres., Safety Car Htg. & Ltg. Co., 2 Rector St.
 Dobson, Frank, 319-321 E. 53d St.
 Dodwell, John G., Ch. Engr., 14th St. Store.
 Doelling, Louis Karl, V. P. and Genl. Supt., De La Vergne Mch. Co., foot E. 138th St.
 Doherty, Henry L., Pres., Denver Gas & Elec. Co., 60 Wall St.
 Donaldson, Stuart A., Engr., Westinghouse, Church, Kerr & Co.
 Donnelly, William T., Cons. Engr., 135 Broadway.
 Ducas, Charles, Pres., Ducas Chem. Co., and Secy. and Treas., The Ducas Co., Rm. 418, 30 Church St.
 Duncan, J. D. E., Managing Engr., with Sanderson & Porter, 52 William St.
 Duncombe, Frederic H., Engr. and Draftsman, Allis-Chalmers Co., 71 Broadway.
 Durant, Aldrich, Supt., Raymond Concrete Pile Co., 140 Cedar St.; also Cambridge, Mass.
 Earll, Chas. Isaac, 11 Broadway.
 Eastment, Wm. H., Engr., B. Altman & Co., Fifth Ave and 34th St.
 Eden, Louis E., Estimating Engr., Robt. A. Keasbey Co., 100 N. Moore St.
 Edson, Jarvis B., 313 W. 74th St.
 Eilers, Karl Emrich, Am. Smelting & Refining Co., 165 Broadway.
 Elvin, Albert Geo., Asst. to V. P., Franklin Ry. Supply Co., 30 Church St.
 Emerson, Harrington, Standard Practice and Efficiency Engr., Rms. 1522-24, Hudson Terminal Bldg., 30 Church St.
 Ennis, J. B., Designing and Estimating Engr., Am. Loco. Co., 30 Church St.
 Epple, Edward C., Engr., Turner Constr. Co., 11 Broadway.
 Errington, Franklin A., Cons. Mech. Engr. and Mfr. Mch. Tools, 29 Cortlandt St.; and Lab. 24 Norwood Ave.
 Esselstyn, Horace H., Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.; also Detroit, Mich.
 Estabrook, Mansfield, Niles-Bement-Pond Co., 111 Broadway.
 Evans, Quinby N., Member of Firm, Evans, Almirall & Co., 281-3 Water St.
 Eyermann, Peter, care Am. Soc. M. E., 29 W. 39th St.
 Faber du Faur, A., Cons. Engr., and Expt. in Pat. Causes, Rm. 617 Vanderbilt Bldg., 132 Nassau St.
 Faile, E. Hall, Cons. Engr., 68 William St.
 Falkenau, Arthur, Cons. Engr., 995 Madison Ave.
 Farwell, E. S., Cons. Engr., 309 Broadway.
 Feldman, Abram Meyer, Cons. Engr., 120 Liberty St.
 Ferguson, Geo. R., Asst. Engr., Dept. Bridges, 1203 Park Row Bldg.
 Ferry, Charles H., Rm. 1360, 50 Church St.
 Fieux, Ernest D., Pres. and Treas., L. J. Wing Mfg. Co., 90 West St.
 Fillingham, Myles Percy, Cons. and Contr. Engr., Hudson Terminal Bldg.
 Flanders, Ralph E., Asso. Editor, Machinery.
 Fleming, Henry Stuart, Cons. Engr., 1 Broadway; also Somerset, Pulaski Co., Ky.
 Flint, Bertram Pierpont, McIntosh, Seymour & Co., 50 Church St.
 Fogg, Oscar H., Engr., Dept. mains and services, Cons. Gas Co. of N. Y., 4 Irving Pl.

NEW YORK CITY (Continued)

- Foran, George Jesse, Mgr., Condenser Dept., Internatl. Steam Pump Co.
- Forstall, Alfred E., Cons. Engr., 58 William St.
- Foster, Ernest Howard, Mech. Engr., V. P., Power Specialty Co., 111 Broadway.
- Foster, Jed S., Asst. Engr., Lidgerwood Mfg. Co., 96 Liberty St.
- Fowler, Geo. L., Cons. Mech. Engr., 53 Broadway.
- Fox, Royal E., Jr., V. P., The Engr. Co., 50 Church St., Rm. 1180.
- Fox, William, Asso. Prof. Physics, College of the City of N. Y., 139th St. and Convent Ave.
- Francis, Charles A., care F. E. Alter, 1121 Fulton Ave.
- Francisco, Ferris L. R., Ch. Engr., Am. Tobacco Co., Rm. 1008, 111 Fifth Ave.
- French, Lester Gray, Editor, Am. Soc. M. E., 29 W. 39th St.
- Frevert, H. F., Prop., Frevert Mchy. Co., 18 Dey St.
- Frohwein, Richard W., Pur. Agt., M. H. Treadwell Co., 140 Cedar St.
- Fry, Alfred Brooks, Member Bd. Cons. Engrs. for Improvement of State Canals, and Ch. Engr., U. S. Treas. Service, U. S. Custom House Bldg.
- Funk, Nelson E., Pres. and Mgr., Funk Mch. Co., 23 City Hall Pl.
- Gantt, Henry L., Cons. Engr., 120 W. 57th St.
- Gardner, Henry, Asst. Supt. of Apprentices, N. Y. Central Lines, Rm. 610, Grand Central Sta.
- Garvin, George K., Pres., Garvin Mch. Co., Spring and Varick Sts.
- Gately, Philip J., Ch. Engr., R. Webber's Packing House & Cold Storage Plant, 2191 Third Ave.
- Gerhard, William Paul, Cons. Engr. for Hyd. and Sanitary Wks., 33 Union Sq.
- Gibbs, Geo., Ch. Engr., Elec. Traction and Terminal Sta. Constr., Pa. Tunnel and Terminal R. R. Co.; Ch. Engr., Elec. Traction, West Jersey & Seashore R. R. Co., L. I. R. R. Co., 10 Bridge St.
- Gibson, George Herbert, Adv. Engr., Tribune Bldg.
- Gilbreth, Frank B., Genl. Contractor, 60 Broadway.
- Gillan, Howard A., N. Y. C. & H. R. R. R. Co., Mech. Engrg. Dept., 42d St.
- Gillett, Wm. Lowry, Steam Engr., Genl. Chem. Co., 25 Broad St.
- Gilman, Francis L., Am. Tel. & Tel. Co., 15 Dey St.
- Gladden, Charles S., Engrg. Dept., J. G. White & Co., 43 Exch. Pl.
- Goetze, Frederick A., Dean, Schools of Mines, Engrg. and Chem., Columbia Univ.
- Goldingham, Arthur Hugh, De La Vergne Mch. Co., Ft. E. 138th St.
- Gordon, Henry Decatur, Mech. Engr., Jenkins Bros., 71 John St.
- Goss, Harry Terboss, Cons. Mech. Engr., Goss and Bryce, 76 William St.
- Goubert, Auguste A., Pres., Goubert Mfg. Co., 90 West St.
- Greene, Isaac Chase, 29 W. 39th St.
- Griepe, August W. H., M. E., Engrg. Dept., N. Y. Edison Co., 55 Duane St.
- Grimm, Paul H., Cons. Engr., 47 Beach St.
- Gubelman, Fred J., Pres., Eastern Constr. Co. of N. J., V. P., O'Rourke Engrg. Constr. Co., 347 Fifth Ave.
- Gwilliam, Geo. T., C. E., Res. Mgr., Hess-Bright Mfg. Co., 1974 Broadway; also Philadelphia, Pa.
- Hackett, George E., Cons. Engr., 90 West St.

NEW YORK CITY (Continued)

Hackstaff, Frederick William, Mgr., Transmission Rope Dept., Am. Mfg. Co., 65 Wall St.

Haden, Harry Y., Pres., Turbine Equip. Co., 30 Church St.

Hague, Charles A., Cons. Engr., 52 Broadway.

Haines, H. S., Cons. Engr., Engrs.' Club, 32 W. 40th St.

Hall, Frederick Bellows, Mech. Engr., W. E. Baker & Co., 27 William St.

Hall, Morris A., The Automobile, 231-241 W. 39th St.

Hall, Willis E., Cons. Engr., 30 Pine St.

Halsey, F. A., Editor, American Machinist, Hallenbeck Bldg., 505 Pearl St.

Hamilton, James, Pat. Atty., Mech. and Elec. Expt., 31 Nassau St.; also Loan & Trust Bldg., Washington, D. C.

Hamner, Chas. Sutherland, Hamner & Moody, Engrs., 25 Broad St.

Hannah, Frederick Augustus, Business Economist, 346 Broadway.

Harding, Adalbert, Wickes Boiler Co., Rm. 1411, 90 West St.

Hardy, George F., Mill Arch. and Hyd. Engr., Langdon Bldg., 309 Broadway.

Harris, Grenville A., Ch. Engr., Takata & Co., 50 Church St.

Harrison, Burt S., Cons. Engr. and Genl. Mgr., Harrison Eng. Co., 42 E. 23d St.

Hartness, R. B., 515 W. 124th St.

Hartwell, Harry, Cons. Engr., Sanderson & Porter, 52 William St.

Hayward, Henry S., Jr., Mech. Engr., Franklin Ry. Supply Co., 30 Church St.

Hayward, Sterling F., Treas. and Genl. Mgr., Connelly Ir. Sponge & Gov. Co., 50 Church St.

Haywood, D. Howard, Member of Firm, Chapin & Haywood, 76 William St.

Healy, Frederick E., Mech. Engr. and Spec. Agt., Alberene Stone Co.; also Washington, D. C.

Hearne, Robert J., Secy. and Treas., Durbrow & Hearne Mfg. Co., 12 Wooster St.

Heller, H. Howard, Eastern Sales Mgr., Hill Clutch Co., 50 Church St.

Helmes, M. J., Ch. Engr. and European Rep., European Brake Shoe Co., Rm. 1408, 30 Church St.

Henderson, Geo. R., Cons. Mech. Engr., 20 W. 34th St.

Hendry, W. Ferris, Asst. Supt., Western Elec. Co., 463 West St.

Henney, David, Service Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.

Henning, Gustavus C., Cons. Engr., 150 Nassau St.

Henshaw, Frederick V., Cons. Engr., 90 Wall St.

Herbert, Frederick Davis, Genl. Sales Mgr., Terry Steam Turbine Co., 90 West St.

Hering, Rudolph, Cons. Engr., Hering & Fuller, 170 Broadway.

Herreshoff, J. B. Francis, V. P., Nichols Copper Co., Cons. Engr., Genl. Chemical Co., 25 Broad St.

Herrick, James A., Rm. 1603, 2 Rector St.

Herschmann, Arthur J., Pres., Am. Wire Brush Co., 277 Greenwich St.

Hershey, Martin E., 114 Liberty St.

Higgins, Albert W., Engr., Hill-Hupfel Engrg. Co., 30 Church St.

Hill, E. Rowland, Asst. to Ch. Engr. Elec. Traction, Pa. Tunnel & Terminal R. R., 10 Bridge St.

Hill, Geo., Builder, 31 E. 27th St.

NEW YORK CITY (Continued)

- Hirschland, Franz Herbert, Mgr., Goldschmidt Detinning Co., 60 Wall St.
- Hirt, Louis Joseph, Mech. Engr., Broad Exch. Bldg., 25 Broad St.
- Hitchcock, Fred'k Matthew, 30 Washington Sq. E.
- Hodgins, George S., Managing Editor, Railway and Locomotive Engineering, 114 Liberty St.
- Hofmeyer, George August, Cons. Engr., 207 W. 24th St.
- Holbrook, Dio Lewis, Engr., Otis Elev. Co., 17 Battery Pl.
- Holbrook, Percy, V. P., Rail Joint Co., 29 W. 34th St.
- Hollander, Emanuel, Ch. of Estimating Staff, Engrg. Dept., Otis Elev. Co., 17 Battery Pl.
- Holloway, H. F., 220 Broadway.
- Hopkins, George G., Jr., Insp. for N. Y. Bd. of Fire Underwriters, Rm. 713, 34 Nassau St.
- Hopton, Lemuel Robert, Supt., The Enos Co., Seventh Ave. and 16th St.
- Horne, Convers Francis, Contr. Engr., Sterling Blower & Pipe Mfg. Co., 109 Liberty St.
- Horton, John T., Spec. in Equip. for Hoisting and Handling Material, 95 Liberty St.
- Hough, David Leavitt, Pres. United Engrg. & Contr. Co., Managing Dir., Cuban Engrg. & Contr. Co.
- Houghton, Charles E., Asso. Prof. Mech. Engrg., N. Y. Univ.
- Howe, Albert W., Salesman, Standard Plunger Elev. Co., 115 Broadway.
- Howell, Frank B., Asst. Genl. Mgr. Sales, Am. Radiator Co., 104-108 W. 42d St.
- Howell, Frank Scott, Civ. and Mech. Engr., Ellis Island.
- Howell, John Jacob, Eastern Mgr., Power Boating, West St. Bldg.
- Howells, Charles, Supt., Watson-Stillman Co., 50 Church St.
- Hoxie, Geo. L., Cons. Engr., 50 Church St.
- Hoxie, Wm. D., V. P., Babcock & Wilcox Co., 85 Liberty St.
- Hudson, Wilbur Gregory, V. P., Guarantee Const. Co., 90 West St., and V. P., Darley Engrg. Co., 149 Broadway.
- Hulbert, William Rowsell, Sales Mgr., Goldschmidt Thermit Co., 90 West St.
- Humphrey, George S., Treas. and Pur. Agt., C. W. Hunt Co., 45 Broadway.
- Hunt, Charles Wallace, 45 Broadway.
- Hunt, Wm. Floyd, 45 Broadway.
- Hunter, James Francis, Asst. Engr. of Constr., Cons. Gas Co., 4 Irving Pl.; also Baltimore, Md.
- Hussey, Wm. Edgerly, Mgr., N. Y. Office, Providence Engrg. Wks., 50 Church St.
- Hutchings, Clifford F., Sprague Elec. Co., 527-531 W. 34th St.
- Hutchins, Harry C., Struc. Draftsman, Pub. Service Com., 154 Nassau St.
- Hutchinson, Cary T., Cons. Engr., 60 Wall St.
- Hutton, Frederick R., 257 W. 86th St., Honorary Secy. Am. Soc. M. E., 29 W. 39th St., Emeritus Prof. Mech. Engrg., Columbia Univ.
- Hutton, Mancius S., Junior Salesman, Am. Radiator Co., Bundy Dept., 104 W. 42d St.
- Hyde, Charles E., Marine Engr. and Naval Arch., 940 Fox St., Bronx.
- Idell, Frank E., Mech. Engr., 50 Church St.

NEW YORK CITY (Continued)

- Idell, Percy C., Mech. Engr., Sales Dept., Babcock & Wilcox Co., 85 Liberty St.
- Ilsley, John Parker, Niles-Bement-Pond Co., 111 Broadway.
- Ingham, Howard M., Mgr., Bliss & Griffiths, 225 Fifth Ave.
- Isham, Henry S., Draftsman, Met. St. Ry. Co., 621 Broadway.
- Isherwood, Benjamin Franklin, Ret. Ch. Engr., Rank of Rear Admiral, U. S. N., 111 E. 36th St.
- Jacobus, D. S., Advisory Engr., Babcock & Wilcox Co., 85 Liberty St., also Spec. Lecturer in Exper. Engrg., Stevens Inst., Hoboken, N. J.
- Jacobus, Robert F., Asst. to Ch. Engr., Am. Tobacco Co., 111 Fifth Ave.
- Jenkins, Matthew Comstock, Hotel Woodward, Broadway and 55th St.
- Jenks, Lilywellyn Howard, Mgr., N. Y. Office, The Frick Co., 39 Cortlandt St.
- John, Griffith, Cons. Engr., Otis Elev. Co., 17 Battery Pl.
- Johnson, David Clayton, Asst. Engr., H. deB. Parsons, 22 William St.
- Johnson, William M., Engr., Natl. Bd. of Fire Underwriters, 135 William St.
- Johnston, John Parry, 32 W. 40th St.
- Jones, Benjamin N., Asst. Genl. Supt., Mfg. and Contr. Dept., Otis Elev. Co., 17 Battery Pl.
- Jones, Frank Cazenove, Pres., W. A. Underhill Brick Co., 103 Park Ave.
- Jones, John Emyln, Jones & McKee, Cons. Engrs., Singer Bldg.
- Jones, Walter J., Cons. Engr., 30 Church St.
- Jowett, J. H., Genl. Sales Mgr., Ingersoll-Rand Co., 11 Broadway.
- Jurgensen, Jess Christian, 29 W. 97th St.
- Just, George A., Cons. Engr., and Pres., George A. Just Co., 239 Vernon Ave., Long Island City.
- Katte, Edwin Britton, Ch. Engr. of Elec. Traction, N. Y. C. & H. R. R., 1230 Grand Central Sta.
- Katzenstein, Martin L., Mgr., Marine Dept., Internatl. Steam Pump Co., 115 Broadway.
- Keith, Thomas M., Genl. Mgr., Link Chain Belt Co., 50 Church St.
- Keller, Joseph F., Genl. Mgr. of Wks., Keller Mech. Engrg. Co., 570-576 West Broadway.
- Kennedy, J. J., Cons. Engr., 52 Broadway.
- Kent, Henry R., V. P., Westinghouse, Church, Kerr & Co., 10 Bridge St.
- Kent, Robert Thurston, 220 Broadway.
- Kenyon, Wm. Houston, Member of Firm, Kenyon & Kenyon, 49 Wall St.
- Kerr, Walter C., Pres., Westinghouse, Church, Kerr & Co., 10 Bridge St.
- Ketchum, Samuel, Ch. Draftsman, M. H. Treadwell Co., 140 Cedar St.
- Kinkead, James A., Res. Sales Mgr., Parkersburg Iron Co., 2701 Singer Bldg.
- Kirchhoff, Charles, 422 West End Ave.
- Kirk, Robert H., Howland-Kirk Co.
- Koenig, Adolph G., Member of Firm, Mortensen & Co., Engrs. and Contrs., 401 W. 24th St.
- Lane, J. S., 50 Church St.
- Lang, Charles, N. Y. Mgr., C. H. Wheeler Mfg. Co., 114 Liberty St.

NEW YORK CITY (Continued)

- Lape, Willard E., Pres., Lape Constr. Co., 90 West St.
 Lawrence, Howard F., Asst. to Chemist, N. Y. Edison Co., Water-side Sta.
 Lee, Ralph A., Asst. Bldg. Supt., with Walter Kidde, 140 Cedar St.
 Lee, Robert E., Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.
 Lemoine, L. R., Genl. Mgr., N. J. Zinc Co., 55 Wall St.
 Lent, Leon B., N. Y. Mgr., Riverside Eng. Co., Terminal Bldg., 50 Church St.
 Lewis, David J., Jr., Mgr., "Bundy" Dept., Am. Radiator Co., 104 W. 42d St.
 Lieb, John W., Jr., Third V. P. and Assoc. Genl. Mgr., N. Y. Edison Co., 55-57 Duane St.
 Lighthipe, Wm. W., Mgr., Repair Dept., Asst. to Genl. Sales Mgr., Otis Elev. Co., 17 Battery Pl.
 Lillibridge, Ray D., 100 Broadway.
 Lipps, Henry, Jr., Contr. Engr., 683 Rosewood St., Williamsbridge.
 Livingston, Robert R., Cons. and Constr. Engr., 2 Rector St.
 Lockwood, James Fred, Mgr., Security Elev. Safety Co., 126 W. 18th St.
 Longenecker, Charles, Pres., Chas. Longenecker & Co., 150 Nassau St.
 Lorsch, Edwin S., Sussfeld, Lorsch & Co., 37 Maiden Lane.
 Loud, Henry S., Ch. Engr., U. S. Wood Preserving Co., 165 Broadway.
 Low, Fred R., Editor, Power, 505 Pearl St., and 256 Harrison St., Passaic, N. J.
 Loyd, John, Pres., John Loyd Co., 558-562 Water St.
 Lucke, Charles E., Prof. Mech. Engrg., Columbia Univ.
 Ludeman, Edwin Henry, Steam Engr., 165 Broadway.
 Lyle, Joel Irvine, Mgr., Carrier Air Conditioning Co., 39 Cortlandt St.
 McClellan, Wm., V. P., Campion McClellan Co., 90 West St.
 McKay, John Edwards, Prin. Asst. Engr., Dept. Water Supply, 13-21 Park Row.
 McKee, Joseph J., Cons. Engr., Jones & McKee, Rm. 522, Singer Bldg.
 McKiever, Wm. Henry, Everett Bldg., Union Sq. N.
 McKinney, Robt. C., Pres., Niles-Bement-Pond Co., Pratt & Whitney Co., 111 Broadway.
 McMillan, Chas. M., Cons. Engr., King Edward Hotel, 145 W. 47th St.
 McMillin, Emerson, Pres., Am. Light & Traction Co., 40 Wall St.
 McNaughton, James, V. P., Am. Loco. Co., 30 Church St.
 MacDonald, James V., Bldr., 29 W. 34th St.
 MacKenzie, Edmund, Designer, J. G. White & Co., 43 Exchange Pl.
 MacLaren, James G., Engr., Lamson Cons. Store Service Cp., 225 Fifth Ave.
 Macon, William Watts, Managing Editor, The Metal Worker, 14 Park Pl.
 Magin, Frank W., Allis-Chalmers Co., 71 Broadway.
 Mahon, Wm. L'E., Salesman, Taylor Iron & Steel Co., 100 Broadway; also Ann Arbor, Mich.
 Manton, Arthur W., Civ. Engr., St. James Bldg., 1133 Broadway.
 Marble, Harry Mills, Solicitor of Patents, 141 Broadway.
 Marburg, Louis Chas., 59 Wall St.
 Marks, Harry J., Mech. Engr., 170 Broadway.

NEW YORK CITY (Continued)

- Marshall, Ernest Woods, Counselor-at-Law, Pat. Exp., 165 Broadway.
- Marshall, Waldo H., Pres., Am. Loco. Co., 30 Church St.
- Mason, Daniel A., Supt., N. Y. Tribune Bldg., 154 Nassau St.
- Massey, Geo. Bragg, 2d, Res. Engr., The Bucyrus Co., 1274 Hudson Terminal Bldg., 50 Church St.
- Masury, Alfred Fellows, Mech. Engr., Hewitt Motor Co.
- Matthews, Fred Elwood, Cons. Refrig. Engr., Rm. 901, 90 West St.
- Matty, Leo. J., Pat. Lawyer, 141 Broadway.
- Mayer, Fred J., Genl. Mgr., Didier-March Co., 50 Church St.
- Meier, E. D., Pres., and Ch. Engr., Heine Safety Boiler Co., 11 Broadway.
- Meier, Konrad, Htg. and Ventilating Engr., 122 E. 25th St.
- Merriam, Henry P., 243 Waverly Pl.
- Mersereau, Theodore T., Pres., Theo. F. Mersereau, Inc., 90 Broad St.
- Mershon, Ralph D., Cons. Engr., 60 Wall St.
- Merz, Robert G., Mech. Engr. and Ch. Draftsman, Am. Process Co., 68 William St.
- Meyer, Henry Coddington, Jr., Cons. Mech. Engr., Metro. Bldg., 1 Madison Ave.
- Michel, Arthur Eugene, Adv. Engr., 1572 Hudson Terminal Bldg.
- Miller, Fred J., Engrs.' Club, 32 W. 40th St.
- Miller, Spencer, Ch. Engr., Cableway Dept., Lidgerwood Mfg. Co., 96 Liberty St.
- Mills, Edmund, Marine Dept., Babcock & Wilcox Co., 85 Liberty St.
- Minck, Peter, Mech. Engr., with Edwin Burhorn, 71 Wall St.
- Mitchell, Albert E., V. P., Wyckoff Pipe & Creosoting Co., Inc., 50 Church St.
- Mitchell, Benjamin M., Pres., Conveying Weigher Co., Engr. of Tests, N. Y. Lubricating Oil Co., and Mech. Engr., Manhattan Rubber Mfg. Co.
- Mohun, John L., Elec. Traction Dept., P. T. & T. R. R. Co., 242 W. 31st St.
- Molé, Harvey E., Lenz & Molé, 71 Broadway.
- Monaghan, Wm. Franchère, Engrg. Dept., N. Y. Edison Co., 55 Duane St.
- Moore, Charles A., Pres., Manning, Maxwell & Moore, Inc., 85-89 Liberty St.
- Moore, D. G., 1 Broadway.
- Moran, Daniel E., V. P. and Dir., The Foundation Co., 115 Broadway.
- Morford, Thomas E., Mgr., N. Y. Office, Am. Steam Pump Co., 17 Battery Pl.
- Morgan, Llewellyn, Mech. Engr., Dobbie Fdy. & Mch. Co., 82 Warren St.
- Morley, Ralph, Mech. Engr., Transmission Dept., The Fairbanks Co.
- Morrison, Clarke J., 52 E. 19th St.
- Mullaney, John J., Pres., Ideal Opening Die Co., 24 West St.
- Muller, Teile H., Engrs.' Dept., Federal Sugar Refining Co., 138 Front St.
- Mumford, Edgar Huidekoper, V. P. and Genl. Mgr., Mumford Molding Mch. Co., 30 Church St.; also Philadelphia, Pa.
- Munby, E. John, 361 Broadway; also Baddow Park, Essex, Eng.

NEW YORK CITY (Continued)

- Murphy, Benjamin Stewart, Mech. Insp., Hudson & Manhattan R. R., 30 Church St.
- Murray, Thomas Edward, Second V. P. and Genl. Mgr., N. Y. Edison Co., 57 Duane St.
- Murrie, John L., Mech. Engr., Pub. Service Com., First Dist., Tribune Bldg.
- Muther, Ellis F., Industrial Engr., Eastern Sales Mgr., Gisholt Mch. Co., Rm. 1253, 50 Church St.
- Myers, David Moffat, Cons. Mech. Engr., Rm. 2401, Park Row Bldg.
- Nathan, Alfred, Pres., Nathan Mfg. Co., 85 Liberty St.
- Neave, Pierson Mitchell, Engr., Western Elec. Co., Bethune and West Sts.
- Neff, Elmer Harton, N. Y. Mgr., Brown & Sharpe Mfg. Co., Rm. 700, 20 Vesey St.
- Nelson, James W., Mgr., Richard Dudgeon, 82 Broome St.
- Newell, Charles Z., Mech. Engr., Federal Leather Co., Suite 202-203, 47 W. 42d St.
- Newell, Harvey E., Salesman, Arch. Record Co., 11 E. 24th St.
- Newell, William, Ch. Insp. of Factory, Fidelity & Casualty Co., 97 Cedar St.
- Nichols, Charles H., Cons. Engr., 42 E. 23d St.
- Nichols, William Wallace, V. P. and Secy., Allis-Chalmers Co., 71 Broadway.
- Nickerson, Alvano T., W. S. Barstow & Co., 50 Pine St.
- Noble, Alfred, 7 E. 42d St.
- Nolde, Frederick, Sales Agt., De La Vergne Mch. Co., foot E. 138th St.
- Norden, Carl L., Draftsman, Lidgerwood Mfg. Co., A. Norden & Co., Cotton Exch. Bldg.
- Norris, Henry Lee, Supt. Bldgs. and Grounds, Columbia Univ.
- Norris, James U., Supt., Rockefeller Inst. for Medical Research, 66th St. and Ave. A.
- Norris, William H., Jr., Engr., W. R. Grace & Co.
- Ohmes, Arthur K., Member of Firm, Nygren, Tenney & Ohmes, 87 Nassau St.
- Oliphant, J. Norris, 20 Broad St.
- O'Neil, Frederick W., N. Y. Mgr., Nordberg Mfg. Co., Rm. 1009, 42 Broadway.
- Orr, Alexander Macklin, Jr., Mgr., H. J. Gielow, Engr., Naval Arch. and Marine Broker, 52 Broadway.
- Orrok, Geo. A., Mech. Engr., N. Y. Edison Co., 55 Duane St.
- Osborne, Charles T., Mech. Engr., Osborne, Rea & Co., 241 W. 41st St.
- Ostrander, Allen Edward, Asst. Mech. Engr., Am. Car & Fdy. Co., 165 Broadway.
- Oviatt, David B., 172 W. 109th St.
- Palmer, Cortlandt E., Cons. Min. Engr., 71 Broadway.
- Parker, Levin S., Mech. Engr., Atlantic Gulf & Pacific Co., 2407 Park Row Bldg.
- Parson, Chas. H., Secy. and Treas., Parson Mfg. Co., Singer Bldg.
- Parsons, H. de B., Prof. Emeritus, Rensselaer Poly. Inst., Troy, and Cons. Engr., 22 William St.
- Parsons, W. Everett, Cons. Engr., 12 Bridge St.
- Parsons, Willard P., 51 Wall St.
- Pattison, Frank A., Cons. Engr., Broadway, Fifth Ave., and 23d St.

NEW YORK CITY (Continued)

- Payne, Nathan B., Mgr., Gov. Dept., Manning, Maxwell & Moore, 85 Liberty St.
- Payson, T. Elliott, Supt., Edengraph Mfg. Co., 135 W. Third St.
- Peabody, E. H., Marine Dept., Babcock & Wilcox Co., 85 Liberty St.
- Pearson, F. S., Cons. Engr., 25 Broad St.
- Peck, Chas. B., Mgr., B. F. Sturtevant Co., 50 Church St.
- Pellissier, George E., Supt., Goldschmidt Thermit Co., 90 West St.
- Pendleton, Frank E., Ch. Engr., N. Y. Steam Co., 140 Cedar St.
- Perry, Samuel B., Ins. Engr., 72 William St.
- Perry, Wm. A., 1 Nassau St.
- Phelps, Charles C., Editor, Steam, 114 Liberty St.
- Phillips, Ellis L., Cons. Engr., Rm. 1663, 50 Church St.
- Pierce, Frederick E., Engr., Constr., N. J. Zinc Co., 55 Wall St.
- Pierce, Walter L., Secy. and Genl. Mgr., Lidgerwood Mfg. Co., 96 Liberty St.
- Place, Clyde R., Mech. Engr., 314 Madison Ave.
- Platt, John, Pres., John Platt & Co., 97 Cedar St.
- Pollak, Charles P., Eastern Sales Agt., Wickes Boiler Co., 1411 West St. Bldg.
- Pomeroy, L. R., Asst. to Pres., Safety Car H. & L. Co., 2 Rector St.
- Pond, Henry O., Engr. and Supt. of Piping, Westinghouse, Church, Kerr & Co., 8 Bridge St.
- Porter, H. Hobart, 52 William St.
- Porter, Holbrook F. J., Cons. Industrial Engr., Met. Bldg., 1 Madison Ave.
- Powell, Marcus, Sales Mgr., Crosby Steam Gauge & Valve Co., 16 Dey St.
- Pratt, Charles Richardson, Cons. Engr., 1123 Broadway.
- Pressinger, W. P., W. P. Pressinger Co., 1 W. 34th St.
- Preston, Geo. B., Engr., Westinghouse, Church, Kerr & Co., 10 Bridge St.
- Primrose, John, Ch. Engr., Power Spec. Co., 111 Broadway.
- Proal, Arthur B., Jr., Sales Engr., Robins Conveying Belt Co., Hudson Terminal Bldg., 30 Church St.
- Prosser, Thomas, Thomas Prosser & Son, 15 Gold St.
- Pryor, Robert W., Jr., Sales Engr., Koithan & Pryor, 39 Cortlandt St.
- Quereau, C. H., Supt., Elec. Equip., N. Y. C. & H. R. R. R., Grand Central Sta.
- Quick, Howard Prescott, Asst. Engr. with F. S. Pearson, Cons. Engr., Mexico and South Am. Tramway Co.'s, Broad Exch. Bldg., 25 Broad St.
- Quimby, William E., Pres., Wm. E. Quimby, Inc., 3 W. 29th St.
- Raqué, Philip E., Cons. Engr., 15 Broadway.
- Rautenstrauch, Walter, Prof. Mech. Engrg., Columbia Univ.
- Ray, David H., Instr., College of the City of N. Y., 140th St. and Convent Ave.
- Ray, Frederick, Ch. Engr., Alberger Pump Co., 95 Liberty St.
- Raymond, Ralph, Telephone Engr., Western Elec. Co., 463 West St.
- Rearick, Chas. Bemis, V. P. and Genl. Mgr., Atwood-Rearick Co., Hudson Terminal Bldg., 30 Church St.
- Reed, William E., 71 Wall St.
- Reese, Dale Fleming, Supt., Steam Boiler Dept., Ocean Accident & Guarantee Corp., Ltd., 59 John St.
- Reeve, Sidney A., Cons. Engr., Rotary Meter Co., 280 Broadway; also New Haven, Conn.
- Reid, Robert C., Hewitt Motor Co., 10 E. 31st St.

NEW YORK CITY (Continued)

- Reis, Leslie R., Mech. Engr. and Contr., Reis & O'Donovan, 1123 Broadway.
- Renwick, Edward S., Mech. Engr. and Exp., Ret., 19 Park Pl.
- Reynolds, John P., Jr., Mech. Engr., Dept. of Water Supply, Park Row Bldg.
- Rice, Calvin W., Cons. Engr., Secretary, Am. Soc. M. E., 29 W. 39th St.
- Richards, Charles R., Dir., Cooper Union.
- Richards, Francis H., Mech. Engr., Pat. Atty., Prop., Mch. and Pattern Shops, Franklin Bldg., 9-15 Murray St.; also Hartford, Conn.
- Richards, Frank, Managing Editor, Compressed Air, and Ingersoll-Rand Co., 11 Broadway.
- Richardson, Clifford, N. Y. Testing Lab., Rm. 1826, Cortlandt Bldg., 30 Church St.
- Richardson, Levi S., Ch. Draftsman, Lehner Engrg. Co., 149 Broadway.
- Richardson, Thomas, Ch. Draftsman, W. S. Barstow & Co., 50 Pine St.
- Richmond, Julian, Asst. Engr., Bd. of Water Supply, 299 Broadway.
- Ricker, Wm. Wood, Secy. and Treas., Guarantee Constr. Co., 90 West St.
- Ricketts, Edwin B., Chemist, N. Y. Edison Co., 666 First Ave.
- Robinson, Frank H., Treas., Walter H. Foster Co., 1479 Fulton Bldg., 50 Church St.
- Robinson, J. M., Pres., Crex Carpet Co., 377 Broadway.
- Roelker, H. B., Mech. Engr., 41 Maiden Lane.
- Rogers, Fred. E., Editor, Machinery, and Railway Machinery, 49-55 Lafayette St.
- Roney, Wm. R., Pres., Guanajuato Development Co., 40 Wall St.
- Rose, William H., 325 W. 93d St.
- Ross, Charles Everett, Cons. Engr., 52 Beaver St.
- Royse, Daniel, Asst. to Dir. of Purchases, Union Pacific R. R., 120 Broadway.
- Ruggles, Wm. Barker, Pres., Ruggles-Coles Engrg. Co., 50 Church St.
- Rutherford, Eugene W., U. S. Rubber Co., 42 Broadway.
- Sanborn, Francis Noel, Mech. Engr., 29 Wall St.
- Sanderson, Edwin N., Sanderson & Porter, 52 William St.
- Sanguinetti, Philip C., Marwick, Mitchell & Co., 79 Wall St.
- Sargent, William Durham, Pres., The Q. M. S. Co., Pres., Reading Steel Casting Co., 30 Church St.
- Saunders, William Lawrence, Pres., Ingersoll-Rand Co., 11 Broadway.
- Schaeffer, Simon, Mech. Engr., Griscom-Spencer Co., 90 West St.
- Scheele, John M. B., 1479 Fulton Bldg., 50 Church St.
- Scheffler, Frederick A., Babcock & Wilcox Co., 85 Liberty St.
- Schnuck, Edward F., Production Engr. and Treas., Jabez Burns & Sons, 600 W. 43d St.
- Scholl, Julian, Mech. Engr., and Mfr. Road Making Mchy., 126 Liberty St.
- Schoolfield, Frank R., Ch. Draftsman, Ford, Bacon & Davis.
- Schuetz, Frederick F., Solicitor of Patents and Mech. Engr., Hudson Terminal Bldg., 50 Church St.
- Schwab, Charles M., Pres., 111 Broadway; also South Bethlehem, Pa.

NEW YORK CITY (Continued)

- Schwanhausser, William, Ch. Engr., Int. Steam Pump Co., 115 Broadway.
- Schwartz, Carl, Engr., Power Stations, N. Y. C. & H. R. R. Co., Grand Central Sta., Rm. 1231.
- Scribner, Charles W., Mech. Engr., 39 Cortlandt St.
- Seaman, Edwin H., Fire Ins. Insp., Am. Lloyds, 45 Cedar St.
- Seaman, Henry B., Ch. Engr., Pub. Service Com., Tribune Bldg.
- Searing, Hudson R., 204 W. 132d St.
- Sears, Richard H., Genl. Real Estate, 22 E. 34th St.
- See, Alonzo B., Owner, A. B. See Elec. Elev. Co.
- Sergeant, Chaś. H., 525 W. 138th St.
- Serrell, Harold, Fulton Bldg., 87 Nassau St.
- Serrell, John A., 200 Fifth Ave.
- Sewall, M. W., Babcock & Wilcox Co., 85 Liberty St.
- Sherwood, Mather Wm., Genl. Insp., Bd. of Aqueduct Commrs.
- Shiebler, Marvin, Cons. Engr., 30 Church St.
- Shields, George Rex, Engr., Improved Equip. Co., 60 Wall St.
- Simpson, Colin C., Asst. Secy. and Genl. Supt. of Distribution, Cons. Gas Co. of N. Y., 4 Irving Pl.
- Simpson, William K., Mech. Engr., Nason Mfg. Co., 71 Fulton St.
- Sinclair, Angus, Editor and Publisher, 114 Liberty St.
- Slade, Arthur J., Cons. Engr., Rm. 403, Times Bldg., 42d St. and Broadway.
- Slater, F. R., Cons. Engr., Latey & Slater, Engrs., 100 Broadway.
- Slauson, Harold W., Asso. Editor, Recreation, 24 W. 39th St.
- Smith, A. Parker, Lawyer, Counsel in Pat. Cases, U. S. Express Bldg., 2 Rector St.
- Smith, Augustus, Contr., 149 Broadway.
- Smith, Chas. F., Cons. Elec. and Mech. Engr., 10th Floor, 25 City Hall Pl.
- Smith, J. Waldo, Ch. Engr., Bd. of Water Supply, City of N. Y., 299 Broadway.
- Smith, Jesse M., Mech. and Elec. Engr. and Expt. in Pat. Causes, Rm. M-14, 220 Broadway.
- Smith, Julian C., Pres. and Mgr., Vacuum Specialty Co., First Ave. and 36th St.
- Smith, Otto T. R., Asst. Engr., Engrg. Dept., Otis Elev. Co., 17 Battery Pl.
- Sorzano, Julio Frederico, Cons. Civ. and Mech. Engr., 52 Broadway.
- Sparrow, John Porterfield, Ch. Engr., N. Y. Edison Co., 55 Duane St.
- Spencer, J. Beaumont, Mech. Engr., Griscom-Spencer Co., 90 West St.
- Spies, Albert, Pres., Fdy. News Co., Hudson Terminal, 50 Church St.
- Spillsbury, Edmund Gybbon, Cons. Engr., 45 Broadway.
- Spiro, Charles, Pres. and Genl. Mgr., Columbia Typewriter Mfg. Co., 39 W. 116th St.
- Stangland, B. F., Mech. Engr., 45 Fulton St.
- Stanton, Alden D., Ch. Draftsman, Dept. Bldgs. and Grounds, Columbia Univ.
- Stanton, Frank McMillan, Min. Engr., Lincoln Trust Bldg., 208 Fifth Ave.; also Atlantic Mine, Mich.
- Starr, John Edwin, Pres., Starr Engrg. Co., 50 Church St.
- Stebbins, Theodore, Herrick & Stebbins, 14-16 Church St.
- Stehlin, Joseph, Pres., Stehlin-Miller-Henes Co., Terminal Bldg., 41st St. and Park Ave., Pres., Farmers Feed Co., 532 E. 76th St.

NEW YORK CITY (Continued)

- Stevens, Alfred H., Engr. and Contr., 149 Broadway.
 Stevens, Robt. H., Stevens Bros., Engrs. and Contrs., 149 Broadway.
 Stevens, Wm. N., V. P., Conveying Mch. Co., 120 Liberty St.
 Stevenson, T. Kennedy, Duplex Metals Co., 149 Broadway.
 Stillman, Austin Frank, Watson-Stillman Co., Terminal Bldg., 50 Church St.
 Stillman, Edwin A., Watson-Stillman Co., 50 Church St.
 Stillman, F. H., Pres., Watson-Stillman Co., and Bridgeport Motor Co., Terminal Bldg., 50 Church St.
 Stirling, Allan, Treas., The Maxim Co., 130 Fulton St.
 Stone, Wilbur M., Mech. Engr. and Pat. Expt., Rm. 1025, Park Row Bldg.
 Stott, Henry G., Supt. M. P., I. R. T. Co., 600 W. 59th St.
 Stovel, Russell W., Westinghouse, Church, Kerr & Co., 10 Bridge St.
 Stranahan, O. A., Engrs.' Club, 32 W. 40th St.
 Stratton, E. Platt, Engr. and Naval Arch., Cons. Engr., Surveyor to Bd. of Underwriters of N. Y., 66 Beaver St.
 Street, Edgar L., Cons. Engr., 43 Cedar St.
 String, Joseph Starr, Asst. Engr., Mosher Water Tube Boiler Co., 30 Church St.
 Suplee, Henry Harrison, Pres., Cassier Magazine Co., and Editor, Cassier's Magazine, 12 W. 31st St.
 Suter, Geo. A., 112 Wooster St.
 Sutton, Frank, Cons. Engr., 91-93 Wall St.
 Swan, John Joseph, Secy., W. P. Pressinger & Co., 1 W. 34th St.
 Swenson, Bernard Victor, Secy. and Treas., Amer. Street & Inter-urban Ry. Assn., 29 W. 39th St.
 Symonds, George P., Chief, Engrg. Dept., Alberger Condenser Co., 95 Liberty St.
 Tait, Godfrey M. S., Pres., Tait Producer Co., 2 Rector St.
 Taylor, Frank H., 995 Madison Ave.
 Taylor, George W. K., 104-106 John St.
 Taylor, John T., Supt., 156 Fifth Ave.
 Taylor, Stevenson, V. P., Quintard Iron Wks. Co., 742 E. 12th St.
 Taylor, Wyatt W., Cons. Engr., 2 Rector St.
 Ten Broeck, Floyd G., Cons. Engr., Fifth Ave. Bldg., 200 Fifth Ave.
 Thomas, Charles W., Mech. Dept., Columbia Univ.
 Thomas, James Winthrop, care Westinghouse, Church, Kerr & Co., 10 Bridge St.
 Thomson, J. Stewart, 42 E. 23d St.
 Thomson, John, Pres., John Thomson Press Co., 253 Broadway.
 Thomson, T. Kennard, Cons. Engr., Hudson Terminal Bldg., 50 Church St.
 Thorp, Frederick P., Power & Mining Mch. Co., 115 Broadway.
 Thresher, Alfred A., Cons. Engr., 29 Broadway.
 Thurston, Edward D., Jr., Tutor, Dept. Mech. Engrg., Columbia Univ.
 Timmis, Walter S., Cons. Engr., 150 Nassau St.
 Tischner, Charles F., Jr., Pat. Atty., 141 Broadway.
 Torrance, Henry, Jr., Mgr., Hudson Terminal Bldg., 50 Church St.
 Torrey, Herbert Gray, U. S. Assayer, U. S. Assay Office, 30 Wall St.
 Towl, Forrest M., Cons. Engr., 26 Broadway.
 Towne, Thos., Eastern Sales Agent, Union Drawn Steel Co., Wash. and Canal Sts.

NEW YORK CITY (Continued)

- Trautshold, Reginald, Pres. and Genl. Mgr., Intercontinental Engrg. Co., 126 Liberty St.
- Troth, P. Howard, Genl. Sales Mgr., The Fairbanks Co., 416 Broome St.
- Truell, Karl O., Colloseus Cement Co., 5 Nassau St.
- Tucker, Edwin D., Mech. Engr., 189 Sixth Ave.
- Turner, Charles P., Constr. Foreman, Gen. Elec. Co.
- Turner, John, Cons. Engr., 524 Tribune Bldg.
- Tuska, Gustave R., Cons. Engr., 68 William St.
- Tuttle, Irving E., Mech. Draftsman, Westinghouse, Church, Kerr & Co.
- Ulmann, Chas. J., Mech. Engr., Bernhard Ulmann & Co., 107-113 Grand St.
- Ulrich, Max Julius, Ch. Draftsman, Alberger Condenser Co., 95 Liberty St.
- Upson, Maxwell Mayhew, Secy., Ch. Engr. and Genl. Mgr., Raymond Concrete Pile Co., 140 Cedar St.
- Vanderbilt, Aaron, Army and Navy Club.
- Vanderbilt, Cornelius, 30 Pine St.
- Van Derhoef, Geo. Nixon, Eastern Cons. Engr., Dodge Mfg. Co., Cedar and Washington Sts.
- Van Winkle, Edward, Cons. Pat. Engr., West St. Bldg., Cedar and West Sts.
- Veit, Richard C., Mgr., Marine Dept., Standard Oil Co., 26 Broadway.
- Veitch, Thomas, Consulting Automobile Engr., 1928 Broadway.
- de Verastegui, Albert, Mgr., Export Dept., Babcock & Wilcox Co., 85 Liberty St.
- Vickess, Samuel, Cons. Engr., 107 Front St.
- Vincent, Arthur S., Cons. Engr. and Supt., Belnord Apts., 86th St. and Broadway.
- Von Goeben, Carl, Engr. and Contr., 140 Cedar St.
- Voorhees, Gardner Tufts, Refrig. Engr., Engrs.' Club, 32 W. 40th St.
- Waitt, Arthur M., Cons. Engr., Rms. 1417-1418, 165 Broadway.
- Waldo, Leonard, Cons. Engr., Rm. 802, Atlantic Bldg., 49 Wall St.
- Waldron, Frederick A., Industrial Engr., Rm. 2412, 37 Wall St.
- Wales, Chas. M., Agt., Cleveland City Forge & Iron Co., 11 Broadway.
- Wallace, Jos. H., Industrial Engr., Temple Court Bldg.; also 125 High Holborn, London, W. C., England.
- Warman, William A., Supt. and Designer, Keller Mech. Engraving Co., 570 West Broadway.
- Waters, Rossiter L., Hedden Constr. Co., 1 Madison Ave.
- Watson, Henry D., Sales Dept., Asst. Mgr., Westinghouse Mch. Co., 165 Broadway.
- Weber, Herman Frederick, Mech. Engr., Elec. Bond & Share Co., 62 Cedar St.
- Webster, Hosea, Sales Mgr., Babcock & Wilcox Co., 85 Liberty St.
- Weick, Charles William, Instr., Industrial Math. and Mech. Drawing, Teachers College, Columbia Univ.
- Wells, George Augustus, Ch. Engr., Adams Express Co., 61 Broadway.
- Wells, J. Leland, Pres., Wells & Newton Co., 292 Ave. B.
- Wells, James Hollis, Member of firm, Clinton & Russell, Archs., 32 Nassau St.

NEW YORK CITY (Continued)

- Westinghouse, H. Herman, V. P., Westinghouse Air Brake Co., 165 Broadway.
- Weston, Frederick Willoughby, Rep., Baldwin Loco. Wks., Standard Steel Wks., 50 Church St.
- Wheeler, Frederick Meriam, Wheeler Condenser & Engrg. Co., West St. Bldg., 90 West St.
- Wheeler, Wm. Trimble, Genl. Mgr., Trinity Engrg. Co., 90 West St.
- Whinery, Samuel, Cons. Civ. Engr., 95 Liberty St.
- Whitcomb, Leroy Albert, Checker, N. Y. Edison Co., 55 Duane St.
- White, Harry Clinton, Jenkins Bros., 71 John St.
- White, Merton G., Mgr., Sales Dept., A. D. Granger Co., 90 West St.
- Whittier, Chas. Robert, Engr., Standard Plunger Elev. Co., 115 Broadway.
- Whyte, Frederic M., Genl. Mech. Engr., N. Y. Central Lines, 610 Grand Central Sta.
- Wilder, Clifton W., Asst. Elec. Engr., Pub. Service Commission, 154 Nassau St.
- Wiley, Wm. H., 43-45 E. 19th St.
- Wilkins, I. Chester G., Mech. Engr., Thompson-Starrett Co., 51 Wall St.
- Willard, Lewis Leigh, Engr., Allis-Chalmers Co.
- Williams, Franklin, Engrg. Specialties, 39 Cortlandt St.
- Williamson, Alfred, Mech. Engr., Dept. Water Supply, Gas & Elec., 13 Park Row.
- Wilner, E. Ralph, Genl. Mgr., Manhattan Screw & Stamping Wks., West End Ave. and 67th St.
- Wilson, Jacob D., Pres., Gen. Mgr. and Mech. Engr., Am. Elev. Co., 113-115 Cedar St.
- Wilson, James Wright, Salesman, Westinghouse Mch. Co., 165 Broadway.
- Wilson, Lester G., Secy. and Mech. Engr., Jas. G. Wilson Mfg. Co., 3 W. 29th St.
- Wilson, Wm. R., Alberger Condenser Co., 95 Liberty St.
- Winship, James G., Internatl. Steam Pump Co., 115 Broadway.
- Winship, W. E., cor. 179th St. and Ft. Washington Ave.
- Wintzer, Rudolph, Power & Min. Mchy. Co., 115 Broadway.
- Wood, Henry Shotwell, Cons. Engr., 1825 Park Row Bldg.
- Woods, Samuel Hamilton, Richardson & Boynton Co., 236 Water St.
- Woodward, Robt. S., Jr., Cons. Engr., 2 Wall St.
- Woodwell, Julian E., Cons. Engr., Terminal Bldg., Park Ave. and 41st St.
- Woolson, Harry Thurber, Ch. Draftsman, Engrg. Dept., Gas Eng. & Power Co., and Chas. L. Seabury & Co., Cons.
- Woolson, Ira H., Adj. Prof. Civ. Engrg., Columbia Univ.
- Woolson, Orosco C., Engr., Spec. Boiler Furnaces, 26 Cortlandt St.
- Worth, Charles C., Asst. Supt. Constr., N. Y. Edison Co., 55 Duane St.
- Wright, James Knox, Cons. Engr. and Mfg., Wright's Pat. Safety Stop, 136 Liberty St.
- Wright, Roydon V., Managing Editor, American Engineer and Railroad Journal, 140 Nassau St.
- Wynkoop, Hubert S., Elec. Engr., Dept. Water Supply, Gas and Elec., 13-21 Park Row.
- Yereance, William B., Cons. Engr., Rm. 1201, 128 Broadway.

NEW YORK CITY (Continued)

- York, H. W., Cons. Engr., Amer. Smelting & Refining Co., 165 Broadway.
- Young, Walter D., Cons. Elec. and Mech. Engr., 237 Fulton St.; also Baltimore, Md.
- Zehnder, Chas. H., Pres., Austen Coal & Coke Co., 140 Cedar St.
- NIAGARA FALLS.—Egbert, Chas. Coggill, Cons. Engr., 43 Gluck Bldg.
- Gobeille, Jos. Léon, Genl. Mgr. and Treas., Gobeille-Harris Pattern Co.
- Harper, John Lyell, Ch. Engr., Niagara Falls Hyd. Power & Mfg. Co.
- Hollmann, Frederick W., Asst. Mech. Engr., Carborundum Co.
- Wilson, Hugh H., Supt., Ontario Power Co. of Niagara Falls.
- NORTH TONAWANDA.—Parsons, William N., Ch. Draftsman, Buffalo Bolt Co.
- Spillman, Edwd. Orton, Mech. Engr.
- NYACK.—Avery, John S., Genl. Mgr., Rockland Light & Power Co.
- OSSINING.—Wilder, Stuart, V. P. and Genl. Mgr., Northern Westchester Ltg. Co., and Peekskill Ltg. & R. R. Co.
- OSWEGO.—Brock, Walter I., Engr.
- Gray, Niel, Jr., Prop., Oswego Mch. Wks.
- PAINTED POST.—Wickersham, Nathan R., Supt., Ingersoll-Rand Co.
- PORT CHESTER.—Boerner, Emile C., Cons. Mech. Engr., Russell, Burdsall & Ward Bolt & Nut Co.
- Burdsall, Ellwood, Secy. and Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co.
- Finley, A. D., Asso. Engr., Russell, Burdsall & Ward Bolt & Nut Co.
- Rupf, Ernest L., Constr. Engr., Russell, Burdsall & Ward Bolt & Nut Co.
- PORT WASHINGTON.—Connett, Lyndon Rutan, Pres., Crescent Sand & Gravel Co.
- POTSDAM.—Aldrich, William Sleeper, Dir., Thomas S. Clarkson Memorial Sch. of Tech.
- Towle, William Mason, Supt. of Shops, Clarkson Memorial Sch. of Tech.
- POUGHKEEPSIE.—Hart, Frederick, Cons. Mech. Engr., Lansing Ave.
- Miller, Theodore Harry, Supt., de Laval Separator Wks.
- RIVERHEAD.—Edwards, J. Irving.
- ROCHESTER.—Alexander, Chas. A., Engr. and Contr., Bldrs.' Exch.
- Ancona, John F., Ch. Draftsman, Eastman Kodak Co., Kodak Park Wks.
- Cochrane, Robert B., Cons. Mech. Engr., 414 German Ins. Bldg.
- Cook, E. J., V. P. and Genl. Mgr., N. Y. State Rys., 267 State St.
- Crocker, Allen Swift, Supt., Industrial Arts Dept., Mechanics Inst., and Cons. Engr., 55 Plymouth Ave.
- Duerner, Henry L., Jr., Mech. Engr., 78 Tacoma St.
- Gleason, William, Pres., The Gleason Wks.
- Hawkins, Edgar Marvin, Genl. Mgr., M. D. Knowlton Co., Inc., 29-35 Elizabeth St.
- Hazelton, Robert T., Designer, Bridgeford Mch. Tool Co., 225 Mill St.
- Hogle, Milton W., 128 Linden St.
- Jones, Albert I., Supt., The Pfaudler Co., 217 Cutler Bldg.
- Knowlton, Frederic K., V. P. and Secy., M. D. Knowlton Co.

ROCHESTER (Continued)

Lovejoy, Frank Wm., Genl. Mgr., Mfg. Depts., Eastman Kodak Co.
 Lundgaard, Ivar, Industrial Engr., Rochester Ry. & Light Co.
 Noyes, Henry Taylor, Jr., Treas., German-American Button Co.
 Palmer, Virgil Maro, Ch. Engr., Selden Motor Vehicle Co.
 Parker, John Castlereagh, Mech. and Elec. Engr., Rochester Ry. & Light Co.
 Peck, Henry W., Asst. Elec. Engr., Rochester Ry. & Light Co., 34 Clinton Ave., N.
 Svensson, Johan Alfred, Ingle Mch. Co., 299 St. Paul St.
 Symington, E. Harrison, Wks. Sales Mgr., T. H. Symington Co.
 Wilcox, Perley Smith, Asst. Mgr., Kodak Park Wks., Eastman Kodak Co.

SACKETTS HARBOR.—Rankin, Thos. L.

SANDY HILL.—Moody, Herbert A., Industrial Engr.

SCHENECTADY.—Batchelder, Asa Fred, Designing Engr., Ry. Engrg. Dept., Genl. Elec. Co.

Burchard, Anson W., 21 Front St.
 Capp, John Allen, Chief of Test Lab., Genl. Elec. Co.
 Chatain, Henri George, Engr., Gas Engs., Genl. Elec. Co.
 Clark, John Henry, Cons. Engr., Genl. Elec. Co.
 Cole, Francis J., Cons. Engr., Am. Loco. Co.
 Corey, Fred Brainard, Engr. of Ry. Signals, Genl. Elec. Co.
 Dalton, William, Ch. Engr., Am. Loco. Co.
 Dodge, Austin R., Engr., Exper. Steam Turbine Dept., Genl. Elec. Co.
 Ely, Wm. Grosvenor, Supt. Constr., Genl. Elec. Co.
 Emmet, W. L. R., Engr., Ltg. Dept., Genl. Elec. Co.
 English, Harry K., Engr., Genl. Elec. Co.
 Haskins, Caryl D., Mgr., Ltg. Dept., Genl. Elec. Co.
 Hewlett, Edward M., Engr., Switchboard Dept., Genl. Elec. Co.
 Hill, Charles Hubbard, Designing Engr., Genl. Elec. Co.
 Ingersoll, Geo. T., Supt., Water Wks., 447 Franklin St.
 Kruesi, August H., Designing Engr. in Charge Constr. Engrg., Genl. Elec. Co.

Landreth, Olin H., Prof. Engrg., Union College, and Cons. Engr.
 Lane, Arthur M., Asst. Engr., Genl. Drawing Rm., Am. Loco Co.
 Leeper, Ralph W., 304 Clinton St.

Mann, A. S., Mech. Engr., Genl. Elec. Co.

Maysilles, John Henry, Genl. Foreman, Elec. Loco. and Truck Dept., Am. Loco. Co.

Mellin, Carl J., Cons. Engr., Am. Loco. Co.

Moore, Allen H., Genl. Elec. Co.; also Albany, N. Y.

Mortensen, Caspar, Designer, Mch. Tool Dept., Genl. Elec. Co.

Potter, Wm. Bancroft, Engr., Ry. and Traction Dept., Genl. Elec. Co.

Pratt, Francis C., care Genl. Elec. Co.

Reid, Wm. L., Mgr., Am. Loco. Co.

Reist, H. G., Mech. and Elec. Engr., Genl. Elec. Co.

Riddell, John, Mech. Supt., Genl. Elec. Co., Schenectady Wks.

Rohrer, Albert L., Elec. Supt., Genl. Elec. Co.

Rushmore, David B., Engr., Power and Min. Dept., Genl. Elec. Co.

Schenck, Leon H., 1379 Union St.

Scudder, Hewlett, Jr., Pat. Dept., Genl. Elec. Co.

Shirrell, David, Am. Loco. Co.; also Hartford, Conn.

Slichter, Walter I., Elec. Engr., Genl. Elec. Co.

Spalding, Chester M., Genl. Elec. Co.

SCHENECTADY (Continued)

- Steinmetz, Charles P., Cons. Engr., Genl. Elec. Co., and Prof. Elec. Engrg., Union Univ.
- Stone, Charles Waterman, Asst. Engr., Ltg. Dept., Genl. Elec. Co.
- Torrance, Kenneth, Mech. Engr., Genl. Elec. Co., and 22 Wash. Ave.
- Upp, John W., Mgr., Switchboard Dept., Genl. Elec. Co.
- Wilkinson, Cecil Tom, Elec. Engr., Genl. Elec. Co.
- Williams, Ernest D., Turbine Eng. Dept., Genl. Elec. Co.
- SENECA FALLS.—Gould, Norman J., Pres., Goulds Mfg. Co.
- Pomeroy, William D., Genl. Supt., Goulds Mfg. Co.
- Shenberger, Geo. H., Goulds Mfg. Co.
- SKANEATELES.—Gray, William Emery, Secy., Skaneateles Paper Co.
- SOLVAY.—Glenn, Chas. Sewell, Supt. of Maintenance, Solvay Process Co.
- Power, Frederick Macy, Orchard Road.
- SPUYTEN DUYVIL.—Morat, Jacques.
- SYRACUSE.—Ahlquist, Harold, Designing Engr., Solvay Process Co.
- Bailey, Frederic W., Draftsman, care Solvay Process Co.
- Barnes, E. Austin, Engr. of Tests, Semet-Solvay Co.
- Barr, John H., Mgr., Smith Premier Wks.
- Bates, Edward P., Prin., 228 W. Water St.
- Blauvelt, Wm. Hutton, Cons. Engr., Semet-Solvay Co.
- Briggs, Arthur J., Engrg. Mgr., Smith Premier Typewriter Co.
- Brown, Alex. T., Pres., Smith Premier Typewriter Co., Brown-Lipe Gear Co.
- Bump, Burton Nelson, Engr. of Tests, Solvay Process Co.
- Chambers, F. G., Supt., Straight Line Eng. Co.
- Cogswell, Wm. B., V. P. and Managing Dir., Solvay Process Co.
- Comly, G. Norwood, Draftsman, Solvay Process Co.
- Comly, Geo. N., 1816 W. Genesee St.
- Cooper, Henry R., Mgr., Caustic Soda Dept., Solvay Process Co.
- Cotton, Geo. G., Supt. of Constr., Solvay Process Co.
- Craig, Howard Benton, Solvay Process Co.
- Diefendorf, Willis H., Ch. Engr., New Process Raw Hide Co.
- Dunkle, H. Edw., Draftsman, Semet-Solvay Co.
- Faulks, James B., Jr., Assoc. Prof., College of Engrg., Syracuse Univ.
- Flannery, John M., Solvay Process Co.
- Fryer, Geo. G., Estimating Engr., Solvay Process Co.
- Gillis, Albert R., Asst., Engrg. Dept., Solvay Process Co.
- Gordon, Rea M., Asst. Engr. of Tests, Solvay Process Co.
- Griffin, Charles Lewis, Second Asst. Engr., Solvay Process Co.
- Guelbaum, David, M. E., P. O. Box 293.
- Herbert, Charles G., Solvay Process Co.
- Holmes, Arthur, Asst. Engr., H. H. Franklin Mfg. Co.
- Hopton, W. E., Pur. Dept., Solvay Process Co.
- Ingalls, Fred D. B., Cons. Mech. Engr., Rosenbloom Bldg., 106 E. Lafayette St.
- Klock, Frank Barnes, Solvay Process Co.
- Kneip, Walter Francis, Engrg. Dept., H. H. Franklin Mfg. Co.
- Lothrop, Marcus T., Halcomb Steel Co.
- McFarland, A. R., Wks. Mgr., Solvay Process Co.
- MacCorquodale, Peter H., Asst. Supt., Church & Dwight Co., 1416 Willis Ave.
- Mallory, Charles K., Engr. of Constr. and Maintenance, Solvay Process Co.
- Müller, Thomas Harrison, Draftsman, Semet-Solvay Co.

SYRACUSE (Continued)

Ninde, William Edward, Instr., Heat Eng. Design, Syracuse Univ.
 Pierce, Edward L., V. P., Semet-Solvay Co., V. P., By-Products
 Coke Corp., Boxes 1 and 2.

Pillmore, Frederick, Mech. Engr., 257 Bryant Ave.

Pomeroy, Harry D., 512 Dillayr Bldg.

Rutherford, G. S., Soda Ash Dept., Solvay Process Co.

Serrell, Wm. C., Lock Box 680.

Shepard, Geo. H., Dean and Prof. Mech. Engrg., College of Applied Science, Syracuse Univ.

Singer, Sidney Chas., Asst. to Engr. of Distribution, Syracuse
 Ltg. Co.

Stearns, Albert, Supt., Church & Dwight Co., 1416 Willis Ave.

Sweet, John E., Pres., Straight Line Eng. Co.

Thompson, Byron Lyman, Asst. Mgr., Bi-Carbonate Dept., Solvay
 Process Co.

Tomlinson, Charles E., Smith Premier Typewriter Co.

Tracy, Lyndon Sanford, Mgr., Soda Ash Dept., Solvay Process Co.

Trump, Edward N., Genl. Mgr. and Ch. Engr., Solvay Process Co.;
 V. P., Semet-Solvay Co.

Wilkinson, John, Ch. Engr., H. H. Franklin Mfg. Co.

Zohe, Ludwig A., Solvay Process Co.

TANNERSVILLE.—Godfrey, Eli S.

TARRYTOWN.—Blumgardt, Isaac E., Hotel Florence.

Davenport, E. W., Maxwell-Briscoe Motor Co.

Parsons, Frederick W., Supt., Rand Drill Co.

TOMPKINSVILLE, STATEN ISLAND.—Pentz, Albert D., 31 Central
 Ave.

TROY.—Cluett, Albert Edmund, Mech. Engr., Cluett, Peabody &
 Co.

Davis, Chester B., 3353 Sixth Ave.

Ehrmann, John P., Hanna Mfg. Co., Federal & Front Sts.

Foster, C. H., Treas., Tolhurst Mch. Wks.

Greene, Arthur M., Jr., Prof. Mech. Engrg., Rensselaer Poly. Inst.

Hammett, Hiram G., Hammett Mch. Wks., 476-482 Eighth St.

Peckham, Wm. M., Managing Partner, Manning & Peckham Paper
 Mills.

Ricketts, Palmer Chamberlaine, Pres., Prof. Mech., Rensselaer
 Poly. Inst.

Van Dervort, Adrian O., Supt., Hammett Mch. Wks.

TUCKAHOE.—Eldred, Byron E., Pres., Commercial-Research Co.
 Laboratory, P. O. Box 4.

UTICA.—Babcock, Stephen E., Mech. and Civil Engr., Rm. 55, Mann
 Bldg.

Camp, Geo. E., Supt., Internatl. Heater Co.

Foster, William B., Supt. and Ch. Engr., Foster Bros. Mfg. Co.

Kellemen, H. F., Genl. Mgr., Utica Drop Forge & Tool Co., 800
 Whitesboro St.

Munson, Edmund G., Supt. and Secy., Munson Bros. Co.

Wisewell, Francis Henry, Jr., 22 Broad St.

WAPPINGERS FALLS.—Fish, Charles H., Genl. Mgr., Garner Print
 Wks. and Bleachery.

WARSAW.—Pettengill, George D., Ch. Draftsman, Warsaw Elev.
 Co.

WATERFORD.—Knickerbacker, John, Pres., Eddy Valve Co.

WATERTOWN.—Eaton, Charles Edwin, Eaton & Brownell, Engrs.
 and Archs., Smith Bldg.

Halladay, Harry F., Draftsman, N. Y. Air Brake Co.

WATERTOWN (Continued)

- Karr, Ernest M., Bagley & Sewall Co.
 Kinne, Clarence E., Mech. Engr., Bagley & Sewall Co.
WELLSVILLE.—Kerr, C. V., Ch. Engr., Kerr Turbine Co.
 McEwen, J. H., Pres. and Genl. Mgr., McEwen Bros.
WEST NEW BRIGHTON, S. I.—Jones, William Anthony, Mech. Engr., Babcock & Wilcox Co.
 Larkin, William H., Jr., Executive Engr., C. W. Hunt Co.
 Waters, George H., Pres., Waters-Colver Co.
WINGDALE, DUTCHESS CO.—Sturgis, Wm. Bayard, Asst. Engr., Dover White Marble Co.
WOLDEN, ORANGE CO.—Bevin, Sydney, Asst. Fdy. Foreman, Mfr. Rider & Ericsson hot air pumps.
YONKERS.—Davis, Joseph P., 332 Palisade Ave.
 Freeman, J. Porter, Constr. Engr., Alex. Smith & Sons.
 Midgley, Frederick W., Ch. Draftsman, Otis Elev. Co.
 Morse, William A., Engr. in charge Wks., Mech. Engrg. Dept., Otis Elevator Co.
 Odell, W. H., Mech. Engr., Specialty, Economic Generation and Application of Steam, 58 Carolina Ave.
 Smith, Allen C., Ch. Mech. Designer, Otis Elev. Co.

NORTH CAROLINA

- ASHEVILLE.**—Waddell, Chas. Edward, Cons. Engr., 78 Patton Ave.
CHARLOTTE.—Lee, William States, Ch. Engr., Southern Power Co., Trust Bldg.
 Mees, Curtis A., Designing Engr., Southern Power Co.
 Owens, Robert B., Southern Power Co., Trust Bldg.
 Thompson, Erwin W., Dist. Mgr., Southern Cotton Oil Co.
 Tucker, Frank Stevenson, Pres., Tucker & Laxton, 906 Realty Bldg.
 Whitted, Thomas B., Pres., Whitted & White, Inc., 1000-1006 Realty Bldg.
GOLDSBORO.—Borden, Wm. H.
PITTSBORO.—Peek, George Meredith.
RALEIGH.—Andrews, Wm. Johnson, Mech. Engr., 105 E. North St.
SALISBURY.—Henderson, Richard, Capt., U. S. N., Ret., P. O. Box 239.
WEST RALEIGH.—Ellis, Weldon T., Asst. Prof. Mech. Engrg., N. C. College of Agri. and Mech. Arts.
 Satterfield, Howard E., Prof. Mech. Engrg., N. C. College of Agri. and Mech. Arts.

NORTH DAKOTA

- GRAND FORKS.**—Crouch, Calvin H., Dean, College of Mech. and Elec. Engrg., Univ. of N. D.

OHIO

- AKRON.**—Adams, Edward M., Ch. Engr., Quaker Oats Co.
 Adamson, Cecil F., Cons. Mech. and Elec. Engr., Hamilton Bldg.
 Bennett, Thomas Archibald, Mgr. of Belt Sales, B. F. Goodrich Co.
 Lombard, Nathaniel, Supt. and Ch. Engr., Lombard-Replogle Engrg. Co.
 Roe, Mark W., Mech. Engr., Diamond Rubber Co.
 Shaw, Edwin C., Genl. Mgr. of Wks., B. F. Goodrich Co.
ALLIANCE.—Taylor, Clarence L., Ch. Engr., Morgan Engrg. Co.
 Young, William A., 522 S. Arch St.

- BARBERTON.—Chandler, Sellers McKee, Pittsburg Valve & Fittings Co.
 Harter, Isaac, Jr., Supt., Babcock & Wilcox Co.
 Langvand, Ivar L., Ch. Draftsman, Barberton Wks., Babcock & Wilcox Co.
 Pape, James Otto, Pittsburg Valve & Fittings Co.
 Slee, Norman S., Engr. and Draftsman, Babcock & Wilcox Co.
 Smith, Wm. E., Babcock & Wilcox Co.
- CANTON.—Alden, Herbert W., Ch. Engr., Timken Detroit Axle Co., Clark Ave.
 Harris, Wm. Allison, Mgr., Am. Sheet & Tin Plate Co., Roll and Mch. Wks.
 Miller, E. E., Secy. and Mech. Engr., W. H. Allman Co.
- CINCINNATI.—Ahrens, Geo. Fred, Pres., Ahrens Fire Eng. Co., Alfred and Cook Sts.
 Aull, Jerome J., Mech. Engr., Lunkenheimer Co.
 Baldwin, Bert. L., Mech. Engr., Rms. 72-75 Perin Bldg.
 Banta, Earle J., Ch. Engr., Cincinnati Equip. Co.
 Bennett, Joseph A., Mech. Engr., Lodge & Shipley Mch. Tool Co.
 Clark, Frank S., Engr., Cincinnati Traction Co.
 De Leeuw, Adolph L., Mech. Engr., Cincinnati Milling Mch. Co.
 Diserens, Paul, Engr. of Tests, Laidlaw-Dunn-Gordon Co.
 Doane, Dr. Wm. H., 601 Fourth Natl. Bank Bldg.
 Dodds, William B., Empire Dist. Elec. Co.
 Du Brul, Ernest F., V. P., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St.
 Du Brul, Napoleon, Pres., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St.
 Eayrs, Thomas C., Ry. and Ltg., Westinghouse Elec. & Mfg. Co., 1104 Traction Bldg.
 Egan, Thomas P., Pres., J. A. Fay & Egan, John and Front Sts.
 Elliott, Thomas, Ch. Engrg., 1312 Traction Bldg.
 Faig, John T., Prof. Mech. Engrg., Univ. of Cincinnati.
 Fox, Charles H., V. P., Ahrens Fire Eng. Co., Alfred and Cook Sts.
 Franz, Walter G., Cons. Engr., Union Trust Bldg.
 Galbraith, Geo. W., Sales Mgr., Internatl. Steam Pump Co., 211 W. Fourth St.
 Geier, Frederick August, Pres., Cincinnati Milling Mch. Co., Sta. B.
 Gingrich, Charles Sumner, Cincinnati Milling Mch. Co., 2533 Cook St.
 Greenman, Edwin G., Ch. Draftsman, The Lunkenheimer Co.
 Greene, William F., Ch. Draftsman and Designer, R. K. LeBlond Mch. Tool Co., 4609-4621 Eastern Ave.
 Hobart, James C., Secy. and Mgr., Triumph Elec. & Ice Mch. Co.
 Hornung, Geo., Cons. Engr., Johnston Bldg.; also Bellevue, Ky.
 Jenkins, Alexander Lewis, Asst. Prof. Mech. Engrg., Univ. of Cincinnati.
 Lane, Harry M., Pres., Lane & Bodley Co., Bond Hill.
 Langen, George, Cincinnati Planer Co.
 LeBlond, John A., Supt., R. K. LeBlond Mch. Tool Co.
 Le Blond, R. K., Mfr., 3668 Archer St., Sta. C.
 Lemon, John C., Mech. Engr., Grand Opera House Bldg.
 Lodge, Wm., Pres., Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave.
 Marx, August, Salesman, G. A. Gray Co., Depot and Gest Sts.
 Marx, Henry, Pres., G. A. Gray Co., Gest and Depot Sts.

CINCINNATI (Continued)

Morrison, James, Supt., Cincinnati Time Recorder Co., 1725 Central Ave.

Morrison, William, 315 Fourth Natl. Bank Bldg.

Moyer, Samuel Lyon, First V. P., The Lunkenheimer Co., P. O. Box 876.

Muller, Edward A., Secy. and Genl. Mgr., King Mch. Tool Co., Winton Pl.

Myers, Curtis Clark, Shop Co-ordinator, Univ. of Cincinnati.

Norris, Henry McCoy, Supt., Engr. and Wks. Mgr., Bickford Drill & Tool Co., Front and Pike Sts.

Richter, Ernst, Ch. Draftsman, G. A. Gray Co.

Ritter, Henry, Supt., The Lunkenheimer Co.

Schlemmer, Edmund, Supt., Htg., Ventilation and Power Work, Oliver Schlemmer Co., 1050-1062 Hulbert Ave.

Seawell, Bert W., Ch. Draftsman, Cincinnati Traction Co.

Smith, Roy B., Foreman, M. P. and Equip., C. L. & N. Ry.

Springer, John J., Sales Engr., Crane Hawley Co., Court and Sycamore Sts.

Stanwood, J. B., Engr. and V. P., Houston, Stanwood & Gamble Co.

Swanberg, F. L., Secy., D. T. Williams Valve Co.

Thullen, L. H., Ch. Elec. Engr., Triumph Elec. Co.

Van Winkle, Herbert H., Mech. Engr., John H. McGowan Co., 54 Central Ave.

CLEVELAND.—Allen, Albert Mark, Cons. Engr., 1130 Schofield Bldg.

Anderson, Harold Bentley, Ch. Engr., Winton Motor Carriage Co.

Arnold, George, Cleveland Frog & Crossing Co.

Balkwill, Stephen, Jr., Mech. Engr., Cleveland Frog & Crossing Co.

Ballard, Frederick W., Mgr., Engrg. and Constr. Dept., Sherwin-Williams Co.

Bartol, Geo., Genl. Mgr., Otis Steel Co., Ltd.

Bates, Albert H., Pat. Lawyer, 1028 Soc. for Savings Bldg.

Baxter, Burke Morgan, 6823 Aetna Rd., S. E.

Bidle, William Sanford, Mgr., Turnbuckle Dept., Cleveland City Forge & Iron Co.

Brown, Alexander E., V. P. and Genl. Mgr., Brown Hoisting Mch. Co., St. Clair Ave.

Brown, Wm. Hiram, Mech. Engr. and Sales Agt., Toledo Elec. Welding Co., 600 Schofield Bldg.

Browning, Victor Reed, V. P., Browning Engrg. Co.

Brush, Charles F., Elec. Engr., 481 The Arcade.

Carpenter, Alfonso H., V. P., Acme Mch. Co., 4533 St. Clair Ave.

Chace, William W., Mech. Engr., Cleveland Twist Drill Co.

Cheney, W. L., Sales Mgr., Lucas Mch. Tool Co.

Clarage, Edson Doud, Mgr., Columbia Tool Steel Co., 1289 W. Sixth St.

Clegg, Robert I., Editor, Wood Craft and Castings, V. P., Gardner Printing Co., Caxton Bldg.

Coleman, Frederick A., Pres., J. D. Smith Fdy. Supply Co., 1846 Scranton Rd.

Comstock, Charles Warren, Cons. Engr., Caxton Bldg.

Cowles, William Barnum, V. P. and Treas., "Long Arm" System Co., 1317 Schofield Bldg.

Cox, Jacob Dolson, Cleveland Twist Drill Co., cor. Lake Ave. and 49th St., N. E.

CLEVELAND (Continued)

- Crane, Edward S., 3203 W. 14th St.
 Cromwell, J. C., 1404 N. E. Bldg.
 Dunbar, James Horace, Mech. Engr., Grasselli Chem. Co.
 Fernald, Robt. H., Prof. Mech. Engrg., Case Sch. of Applied Science, Engr. in charge, U. S. Geolog. Survey.
 Foote, Andrew W., Pres., Foote Burt Co., 4100-4109 St. Clair St.
 Fox, John Herbert, Cons. Engr., Frazier & Fox, Rockefeller Bldg.
 Gahr, David, Contr. Engr., Schofield Bldg.
 Griess, Justin, Jr., Treas. and Sales Mgr., Interstate Engrg. Co., Bldrs.' Exch., Chamber of Commerce Bldg.
 Hale, Herbert Carlton, Contr. and Designing Engr., 1036-38 Schofield Bldg.
 Hand, S. Ashton, Supt., Chandler & Price Co., 6000 Carnegie Ave.
 Herman, Ludwig, Cons. Engr. and Expt., 7406 Cedar Ave.
 Hill, Harold H., Mech. Engr., Dist. Mgr., Erie City Iron Wks., 807 N. E. Bldg.
 Hinchman, C. R., Engr., Am. Steel & Wire Co.
 Honsberg, August A., M. E., Asst. County Engr., Old Court House, Map Dept.
 Hulett, Frank E., Engr., Wellman-Seaver-Morgan Co.
 Hulett, Geo. Henry, Third V. P., Wellman-Seaver-Morgan Co.
 Jones, Edward H.; also Clearwater, Fla.
 Lane, Henry Marquette, Editor, Castings and Wood Craft, Caxton Bldg.
 Larner, Chester W., Hyd. Engr., Wellman-Seaver-Morgan Co.
 Lees, Ernest J., Pres., Lees-Bradner Co., 1967 E. 55th St.
 Leighton, Edward I., Cleveland Mch. & Mfg. Co., 1198 Hamilton St.; also St. Augustine, Fla.
 Little, Chas. Henry, Mgr., Universal Drafting Mch. Co.
 Lucas, Henry M., Lucas Mch. Tool Co., E. 99th St. and L. S. & M. S. R. R.
 McGeorge, John, Partner, Cleveland Engrg. Co., N. E. Bldg.
 McKechnie, Robert R., Mech. Engr.
 McKee, Arthur Glenn, Cons. and Contr. Engr., 1303 Rockefeller Bldg.
 McMullin, Frank V., Supt., Cleveland City Forge & Iron Wks.
 McNairy, Amos B., Mfr., Hickox Bldg.; also New York, N. Y.
 Maltby, Geo. Beecher, V. P. and Genl. Mgr., Ohio Metallic Packing Co., 721 St. Clair Ave., N. E.
 Matthews, John G., Instr. Mech. Drawing, Cleveland Tech. H. S.
 Merryweather, Geo. Edmund, Pres., Motch & Merryweather Mchy. Co., 707-715 Lakeside Ave., N. W.
 Miller, Walter, Cons. Engr., 1424 Rockefeller Bldg.
 Moeller, Franklin, Engr., Power and Mining Dept., Wellman-Seaver-Morgan Co.
 Morrison, Hunter, Sales Mgr., Hill Clutch Co., W. 58th St.
 Murray, George R., Pres., Maxwell Rolf Stone Co., 586 The Arcade.
 Nesbit, Edwin, Zinc Engr., Grasselli Chem. Co.
 Palmer, Arthur E., Ch. Engr., Ferro Mch. & Fdy. Co.
 Parish, Wm. H., Asst. Supt., Natl. Carbon Co.
 Peck, Eugene C., Genl. Supt., Cleveland Twist Drill Co.
 Pitkin, Stephen H., First V. P., Wellman-Seaver-Morgan Co.
 Plantinga, Pierre, Pres., Gas Mchy. Co., Citizens Bldg.
 Pope, Chas. Edwd., Mech. Engr., Natl. Malleable Castings Co.
 Prather, H. B., Cons. Power, Htg. and Ventilating Engr., Rockefeller Bldg.
 Reid, Marcellus, Mech. and Cons. Engr., 506 Caxton Bldg.

CLEVELAND (Continued)

- Reilly, William J., Mgr., Cleveland Office, Babcock & Wilcox Co., 706 N. E. Bldg.
- Rider, Geo. Smith, Cons. Engr., Geo. S. Rider & Co., Century Bldg.
- Robbins, C. C., Treas. and Genl. Mgr., Cleveland Crane & Engrg. Co., Wickliffe.
- Roberts, E. P., Pres., Roberts & Abbott Co., 1123 Schofield Bldg.
- Rusbatch, Alfred, Supt., Rod Mills, 1786 E. 89th St.
- Sague, Samuel Reston, Sales Engr., Power House Equip., Strong, Carlisle & Hammond Co.
- Seaver, John Wright, Cons. Engr., Caxton Bldg.
- Sheridan, Richard B., Asst. Genl. Mgr., Brown Hoisting Mch. Co.
- Smith, Ernest L., Mgr. of Sales, Grant-Lees Mch. Co.
- Smith, Harry J., Ch. Engr., Hill Clutch Co.
- Smith, Roy Harman, Supt., Natl. Screw & Tack Co.
- Stratton, H. F., Sales Mgr., Elec. Controller & Mfg. Co.
- Stratton, James Hughes, Engr. of Constr., Wellman-Seaver-Morgan Co.
- Stroud, Edwin G., Mgr., Cleveland Engrg. Agency; Pres., E. G. Stroud Co., Rose Bldg.
- Swasey, Ambrose, V. P., Warner & Swasey Co.
- Tiplady, John T., Supt. Mch. and Power Plant, Variety Iron & Steel Wks. Co.
- Vose, Fred Hale, Mech. Engrg. Dept., Case Sch. of Applied Science.
- Warner, Worcester R., Pres., Warner & Swasey Co.
- Wellman, Samuel T., 8803 Euclid Ave.
- West, Thos. D., Fdy. Expt. and Mgr., West Steel Casting Co., E. 70th St.
- Whitlock, Elliott H., Asst. Factory Mgr., Natl. Carbon Co.
- Wiechardt, August J., Cons. Engr., Williamson Bldg.
- Winterrowd, William H., Roundhouse Foreman, Lake Shore & Mich. Southern Ry.
- Wyman, Arthur H., Sales Engr., Allis-Chalmers Co., 1411 Schofield Bldg.
- Young, E. R., Draftsman, Garrett-Cromwell Engrg. Co.
- COLUMBUS.—Andrix, Earl Russel, 802 Bellows Ave.
- Armstrong, Walter Jonas, Draftsman, Jeffrey Mfg. Co.
- Babbitt, Edward F., Engr. with F. L. Packard, Arch.
- Bone, Wm. H., V. P. and Genl. Mgr., The Ironsides Co.
- Bush, Harold Montfort, Cons. Engr., Broad-Oak Bldg., and 55 N. Ninth St.
- Cole, J. Wendell, Dist. Mgr., Williams Sellers & Co.'s Grinders, and Detroit Emery Wheel Co., P. O. Box 84.
- Colwell, Augustus W., 1416 Michigan Ave.
- Cunningham, Robert Henry, Jr., Salesman, Cleveland office, Ingersoll-Rand Co.
- Dunlap, Thaddeus C., Pres., Columbus Pneu. Tool Co., Box 523.
- Fitz, Ervin M., Elec. Engr., M. P., Dept. Pa. Lines West of Pittsburgh, New First Natl. Bank Bldg.
- Gamper, Herman, Supt., Municipal Ltg. Dept.
- Hitchcock, Embury A., Prof. Exper. Engrg., Ohio State Univ.
- Jackson, Walter W., Engr. of Water Supply, City Hall.
- Judd, Horace, Asst. Prof. Exper. Engrg., Ohio State Univ.
- Lawrence, Gerald P., 201 16th Ave.
- Magruder, Wm. T., Prof. Mech. Engrg., Ohio State Univ.

COLUMBUS (Continued)

- Renner, Roland B., 226 Buttles Ave.
 Rigdon, Carl, Asst. Prof. Exper. Engrg., Ohio State Univ.
 Robinson, Stillman W., Prof. Emeritus, Mech. Engrg., Ohio State Univ.; also Pres., S. W. Robinson & Son Co., 515 W. First Ave.
 Sanborn, Frank Edwin, Prof. Industrial Arts, Ohio State Univ.
 Smith, Persifer Frazer, Jr., M. M., Pa. R. R. Shops.
 Wyer, Samuel S., Mech. Engr., Harrison Bldg.
 Young, Chas. D., Asst. Engr. of M. P., Pa. Lines West of Pittsburgh, Rm. 716, New First Natl. Bank Bldg.
- CONNEAUT, ASHTABULA CO.—Brown, J. Linwood, M. E., R. F. D. No. 1.
 Fickinger, P. J., Mech. Engr., P. & C. Dock Co.
- DAYTON.—Ayers, Norwood B., Ch. Engr., Dayton Ltg. Co., 124 E. Fourth St.
 Canby, Harry Beaver, Second V. P., Crawford, McGregor & Canby Co.
 Chamberlin, William F., Secy. and Genl. Mgr., Dayton Hyd. Mchy. Co.
 Deeds, Edwd. Andrew, Second V. P. and Asst. Mgr., Natl. Cash Register Co.
 King, Roy S., Genl. Supt., Hall-Cronan Co., 1111-1113 U. B. Bldg.
 Martin, Haakon A., Head Invention 5, Natl. Cash Register Co.
 Ripsch, Charles William, Ch. Draftsman, Engrg. Dept., Natl. Cash Register Co.
 Schneble, Rudolph G., Mech. Engr., 1627 E. Third St.
 Sturgess, John, Western Rep., Platt Iron Wks. Co.
 Valle, J. Henry, Vaile & Kimes.
 Yates, Richard Llewellyn, Ch. Draftsman, Waterwheel and Turbine Pump Dept., Platt Iron Wks. Co.
- EAST CLEVELAND.—Smith, Harry Ernest, Chemist and Engr. of Tests, L. S. & M. S. Ry.
- EAST COLUMBUS.—Frankenberg, Geo. T., Mech. Engr., Ralston Steel Car Co.
- EAST NORWOOD.—Goldsmith, Nathaniel Oliver, Ch. Engr., Weir Frog Co.
- ELYRIA.—Martell, Louis H., Specialist in Metal Packings.
 Piercy, Edgar, 282 Washington Ave.
- FINDLAY.—Lambie, James M., Asst. Genl. Mgr., Findlay Clay Pot Co.; also Washington, Pa.
- HAMILTON.—Cullen, James K., Pres., Niles Tool Wks.
 Griffin, Michael E., Ch. Draftsman and Expt. Engr., Hooven, Owens, Rentschler Co.
 Helvey, Clarence H., Secy., Repub. Motor Car Co.
 Helvey, Geo. Stanley, M. E., Engr., and Factory Mgr., Repub. Motor Car Co.
 Holman, R. Claude, Ch. Draftsman, Hooven, Owens, Rentschler Co.
 Hughes, Burton Shelley, Cons. Engr., Champion Fibre Co. of Canton, N. C., and Champion Coated Paper Co.
 Kutter, H. L., Sales Mgr. and Engr., Black-Clawson Co.
 Lattin, Judson, Asst. Supt., Internatl. Harvester Co. of Canada, Ltd., Sherman Ave.
 Mayo, Wm. Benson, Secy. and Genl. Mgr., Hooven, Owens, Rentschler Co.
 Reiss, George T., V. P., Niles Tool Works.
 See, James W., Mech. Engr., Rentschler Bldg.

HAMILTON (Continued)

Trowbridge, Francis C., Secy., Treas. and Genl. Mgr., Black-Clawson Co.

Wood, Augustus, Ch. Draftsman, Niles Tool Wks. Co.

IVORYDALE.—Anderson, Robert, Ch. Engr., Proctor & Gamble Co.

LAKEWOOD.—Wachalofsky, Chas. J., Mech. Engr., Osborn Engrg. Co.

LEXINGTON.—Smith, Harry Ford, Secy. and Genl. Mgr., Smith Gas Power Co.

LIMA.—Doebler, Chas. H., Genl. Mgr., Lima Brake Shoe Co.

Wall, Geo. L., Asst. Genl. Mgr., Lima Loco. & Mch. Co.

LORAIN.—Suppes, Max M., Natl. Tube Co.

MT. VERNON.—Thomas, Fred H., Sales Engr., C. & G. Cooper Co.

MANSFIELD.—Brown, John Rowland, Mech. Engr., Ohio Brass Co.

MASSILLON.—Croxtton, Herbert A., Pres. and Treas., Massillon Iron & Steel Co.

Garrigues, Edmund, Ch. Draftsman, Russell & Co.

Heggem, Charles O., Supt., Russell & Co.

Russell, C. M.

Taylor, John W., Asst. Supt., Russell Eng. Co.

MIDDLETOWN.—Kaffenberger, Gustav, Mech. Engr., Shartle Bros. Mch. Co.

NILES.—Gorton, J. C., Supt., Harris Automatic Press Co.

NORWOOD.—Hecker, H. A., 2032 Elm Ave.

PORTSMOUTH.—York, L. D.

ST. MARYS.—Buckley, John Francis, Cons. Engr. to Genl. Supt., St. Marys Mch. Co.

Heisler, Charles L., Ch. Engr. and V. P., The Heisler Co.

Heisler, F. Wm., Supt., The Heisler Co.

SALEM.—Aslakson, Baxter M., Mech. Engr., Buckeye Eng. Co.

Cooper, Geo. S., Mech. Engr., Buckeye Eng. Co.

Emeny, Fred'k James, Ch. Engr., The Deming Co.

Hunt, Charles B., Supt. of Constr., Buckeye Eng. Co.

Mansfield, Albert K., Cons. Engr., 283 Lincoln Ave.

Weeks, Charles H., V. P., Buckeye Eng. Co., Lock Box 175.

SANDUSKY.—Millspaugh, William H., Pres., Sandusky Fdy. & Mch. Co.

Roberts, Edmund W., Mech. Engr., V. P. and Genl. Mgr., Roberts Motor Co.

SPRINGFIELD.—Bauer, Chas. L., Pres., Foos Mfg. Co.

Bayley, W., Pres. and Ch. Engr., Wm. Bayley Co.

Bayley, W. D., V. P., Wm. Bayley Co.

Hoppes, John J., Pres., Hoppes Mfg. Co., and Trump Mfg. Co.

Kelly, O. W., Pres., O. S. Kelly Co.

Perks, George W., Supt., Am. Seeding Mch. Co.

Shoumlin, Patrick J., Prop., Superior Gas Eng. Co.

Weinland, Hermon G., Mech. Engr., Safety Emery Wheel Co.

TOLEDO.—Calder, C. B., V. P. and Genl. Mgr., Toledo Ship Bldg. Co., 623 W. Bancroft St.

Hallenbeck, George E., Genl. Supt., Baker Bros., Post St. and Westlake Ave.

Kirk, George E., Pat. Lawyer, Suite 1649, The Nicholas.

Luehrs, Daniel Michael, Ch. Engr. and Supt., McCreery Engrg. Co.

Rathbun, Edward, Second V. P., Rathbun-Jones Engrg. Co., Spencer St.

Rathbun, Geo. Jay, V. P. and Engr., Rathbun-Jones Engrg. Co.

TOLEDO (Continued)

Wuerfel, Geo. D., Member of Firm, Wuerfel & Miggett, Cons. and Mech. Engrs., 1125 Ohio Bldg.

Yaryan, Edward B., Supt., Yaryan Naval Stores Co., 513 Gardner Bldg.

Yaryan, Homer T., V. P., Yaryan Naval Stores Co., 513 Gardner Bldg.

WARREN.—Smead, William H., Mgr., Htg. Dept., Genl. Fire Extinguisher Co.

WELLSVILLE.—Davis, A. C., care Pa. Lines.

WICKLIFFE.—Davis, Thomas B., Ch. Engr., Cleveland Crane & Engrg. Co.

XENIA.—Garfield, Lyman Morse, Supt., Miami Powder Co.

YOUNGSTOWN.—Housum, Chenoweth, William Tod Co.

Jett, Carter C., Draftsman, Repub. Iron & Steel Co.

Kirkevaag, Peter, Engr., William Tod Co.

McBane, Walter Watson, Designer, William Tod Co.

McDevitt, Frank J., V. P. and Mgr., Ohio Steam Specialty Co.

Norton, Fred Elmer, Ch. Engr., William Tod Co.

Pinger, Geo. C., Republic Iron & Steel Co.

Reynolds, Irving H., V. P. and Mgr., William Tod Co.

Robinson, C. Snelling, 2d V. P., Youngstown Sheet & Tube Co.

Rust, William F., Ch. Engr., Youngstown Sheet & Tube Co.

Wear, Burt C., Draftsman, Engrg. Dept., Repub. Iron & Steel Co.

Wick, Henry, 413-415 Dollar Savings & Trust Co. Bldg.

Woodward, Louis A., Wks. Mgr., William Tod Co.

Young, John P., Genl. Mgr., Youngstown Car Mfg. Co.

ZANESVILLE.—McCoy, William, Mech. Engr., Ayres Mineral Co., and Central Silica Co.

OKLAHOMA

EL RENO.—Hanson, Walter S., Pres., El Reno Alfalfa Milling Co.

OREGON

CORVALLIS.—Gardner, Thomas M., Prof. Elec. Engrg., Ore. Agri. College, Cons. on Power Plant Engrg., Mechanical Hall.

FORT STEVENS.—Ireland, Mark L., First Lieut., Coast Artillery Corps, U. S. A.

KLAMATH FALLS.—Case, Theo. Newton.

PORTLAND.—Ball, Bert Chas., Treas. and Ch. Engr., Willamette Iron & Steel Wks.

Corbett, William H., Pres. and Mgr., Willamette Iron & Steel Wks., Pres., Oregon Dry Dock Co.

Evans, William Penn, N. W. Rep., Baldwin Loco. Wks., 809 Couch Bldg.

Grelle, Charles Edward, Pres. and Mgr., Independent Fdy. Co., 23d and York Sts.

Raymond, Herbert Emmons, Mech. Engr., MacNaughton, Raymond & Lawrence, 606-609 Concord Bldg.

Reed, Samuel Gordon, Pres., German-American Bank.

Sweet, Franklin, Smith & Watson Iron Wks.

Warren, Walter B., V. P., Warren Bros. Co., 323 Beck Bldg.

PENNSYLVANIA

ALLEGHENY.—Albree, Chester B., Pres. and Ch. Engr., Chester B. Albree Iron Wks. Co., 1115-1131 Market St.

Ely, Sumner Boyer, V. P., Chester B. Albree Iron Wks. Co.

Lindstrom, Charles A., Ch. Engr., Pressed Steel Car Co., McKees Rocks.

- ALLENTOWN.—Franks, Fred'k B., Operating and Constr. Cement Plant, 129 N. West St.
 Robinson, H. B., Mech. Engr., Supt. of Shops, Allentown Rolling Mills.
- ALTOONA.—Dunbar, William Otis, Asst. Engr., Test Dept., Pa. R. R.
 Kiesel, William Frederic, Jr., Asst. Mech. Engr., P. R. R., 12th Ave. and 12th St.
 Koch, George B., Foreman, Loco. Testing Plant, Pa. R. R.
- ALTOONA.—Dunbar, William Otis, Asst. Engr., Test Dept., Pa. R.R.
 Vogt, Axel S., Mech. Engr., Pa. R. R. Co.
 Wood, Benjamin F., Asst. Engr., M. P. Dept., Pa. R. R. Co.
- AMBRIDGE.—Bernard, James L., Mech. Engr., Am. Bridge Co.
- BEAVER FALLS.—King, John H., 3622 Fifth Ave.
- BERWICK.—Fowler, Sterling DeW., 525 E. Front St.
- BETHLEHEM.—Fritz, John, Cons. Engr., 155 Market St.
 Johnston, J. Frank, 34 N. Center St.
 Sirich, J. Henry, Jr., Ch. Draftsman, Power Dept., Bethlehem Steel Co.
- BIRDSBORO.—Blanchard, Arthur S., Asst. Genl. Mgr., Birdsboro Steel Fdy. & Mch. Co.
- BRADDOCK.—Danks, Alfred C., Ch. Engr., Gas Engines, Edgar Thomson Wks., Carnegie Steel Co.
- BRADFORD.—Rose, John H., Secy. and Genl. Mgr., Bradford Elec. Light & Power Co.
- BRIDGEPORT, MONTGOMERY CO.—Bray, Charles W., R. D. No. 1. Wilkinson, Alfred.
- BRISTOL.—Dodds, Wm. E., Genl. Mgr., Standard Cast Iron Pipe & Fdy. Co.
- BROOKVILLE.—Jenks, William H.
- BUTLER.—Christianson, Andrew, Ch. Engr., Standard Steel Car Co.
 Sutherland, James I., Estimator, Standard Steel Car Co.
 Turner, Charles H., Standard Steel Car Co.
- CARBONDALE.—Trautwein, Alfred P., V. P., Am. Welding Co.
 Hamilton, Wm. Juel, Secy., Hendrick Mfg. Co.
 Hiller, N. H., V. P., Carbondale Mch. Co.
- CARNEGIE.—Gowie, William, Mech. Engr. and Supt., Scott Iron & Steel Co.
- CHESTER.—Stevenson, William Alston, Mgr., Keystone Drop Forge Wks.
- CLAIRTON.—Leahy, Frank E., Steam Engr., Carnegie Steel Co.
- CLARION.—Klahr, Charles Dean.
- COATESVILLE.—Bixler, Harry Z., Worth Bros. Co.
 Entrekin, Norman Reese, Genl. Supt., Worth Bros. Co.
 Haldeman, Paul Collins, M. M., Lukens Iron & Steel Co.
 Huston, Charles L., V. P., Lukens Iron & Steel Co.
- CONSHOHOCKEN.—Logan, John W., Asst. Mgr., Steel Wks. Dept., Allan Wood Iron & Steel Co.
- DUQUESNE, ALLEGHENY CO.—Bailey, H. Morell, Mech. Engr., Engrg. Dept., Carnegie Steel Co.
- EAST DOWNTON.—Standley, Albert H., V. P. and Genl. Supt., Downington Mfg. Co.
- EAST MAUCH CHUNK.—Freeman, Stuart E.
- EASTON.—Blencowe, John, W. Lafayette St.
 Firmstone, Frank.
 Frederick, Floyd Willis, Mech. Engr., Natl. Bd. of Fire Underwriters.
- Tydeman, William A., Secy., Macan, Jr., Co.

- EAST PITTSBURG.**—Bole, Wm. A., Cons. Engr., Westinghouse Mch. Co.
 Breslove, Joseph, Engrg. Dept., Westinghouse Mch. Co.
 Brinton, Willard C., Industrial Engr., Westinghouse Elec. & Mfg. Co.
 Cox, Frederick W., Asst. Mgr. of Wks., Westinghouse Elec. & Mfg. Co.
 Dreyfus, Edwin D., Westinghouse Mch. Co.
 Flint, William P., Engr., Gas Eng. Dept., Westinghouse Mch. Co.
 Hale, Frederick J., Engr., Gas Eng. Dept., Westinghouse Mch. Co.
 Herr, Edwin M., First V. P., Westinghouse Elec. & Mfg. Co.
 Herr, Herbert T., Genl. Mgr., Westinghouse Mch. Co.
 Hodgkinson, Francis, Mech. Engr., Westinghouse Mch. Co.
 Kingsbury, Albert, Mech. Engr., Westinghouse Elec. & Mfg. Co.
 Klink, J. Henry, Commer. Engr., Industrial and Power Dept., Westinghouse Elec. & Mfg. Co.
 Longwell, Henry E., Cons. Engr., Westinghouse Mch. Co.
 McClelland, E. S., Asst. Ch. Engr., Westinghouse Mch. Co.
 Norris, Edson R., Supt. Mfg. Methods and Labor Costs, Westinghouse Elec. & Mfg. Co.
 Rose, E. Ernest, Engr., Westinghouse Elec. & Mfg. Co.
 Seaver, Edward, Jr., Asst. Condenser Engr., Westinghouse Mch. Co.
 Sweet, Charles E., Supt., Steam Turbine Constr., Westinghouse Mch. Co.
 Taylor, Alexander, Mgr. of Wks., Westinghouse Elec. & Mfg. Co.
 Thomas, Jay G., Draftsman, Westinghouse Mch. Co.
 Yawger, Edwin, Westinghouse Mch. Co.
- EDDYSTONE.**—Albrecht, Otto, Mech. Engr., Tindel Morris Co.
 Austin, William F., Supt., Eddystone Plant, Belmont Iron Wks.
- EIDENAU.**—Houghton, Clyde Arthur, P. H. B. & N. C. Ry. Co.
- ELLWOOD CITY, LAWRENCE CO.**—Smith, Howard Wells, Ch. Engr., Standard Eng. Co.
 Stiefel, Ralph C., Mech. Engr.
- ERIE.**—Armstrong, E. J., Engr., Ball Eng. Co.
 Behrend, Ernst Richard, Pres., Hammermill Paper Co.
 Childs, Eugene, Pres. and Genl. Mgr., Lakeside Forge & Wrench Co.
 Conrader, Rudolph, Supt., Brass Dept., Jarecki Mfg. Co.
 Conrath, George B., Genl. Mgr., Nagle Corliss Eng. Wks.
 Jarecki, Alex. H., Secy., Jarecki Mfg. Co.
 Smith, Mark Elmer, Mgr. and Owner, Irwin's Garage, 513-515 French St.
 Stevens, R. C., Ch. Engr., Skinner Eng. Co.
- FOMBELL, BEAVER CO.**—Ruth, Wilbur M.
- FRANKLIN.**—Carew, Clement J., Supt. and Genl. Mgr., Chicago Pneu. Tool Co., 1001 Liberty St.
 Carpenter, Allan O., Ch. Draftsman, Chicago Pneu. Tool Co.
 Haskell, Broderick, V. P. and Genl. Mgr., Venango Mfg. Co.
 Sedgwick, Edw. V., Mgr., Exper. Dept., Galena-Signal Oil Co.
 Williams, Alan Gillespie, 1402 Liberty St.
- GALETON.**—Dreyfus, Theo. Frank, Supt. M. P., Buffalo & Susquehanna Ry.
- GREENVILLE.**—Brodhead, Alex. L., Pres., Greenville Silica Sand & Quarry Co.
- GWYNEDD VALLEY.**—Cathcart, William L.
- HARRISBURG.**—Allen, Benj. T., Ch. Engr., Harrisburg Fdy. Mch. Wks.

HARRISBURG (Continued)

Beecher, J. F., Draftsman, Pa. Steel Co.

MacKenzie, William Percival, V. P. and Genl. Mgr., Harrisburg Fdy. and Mch. Wks.

Newbury, Geo. K., 10 Y. M. C. A. Bldg.

HAVERFORD.—Tatnall, James Edward.

HAZLETON.—Nickel, Franz F., Cons. Engr., Jeanesville Iron Wks. Co.

HOLLIDAYSBURG.—Kirk, William Fell, Mgr., McLanahan-Stone Mch. Co., 1005 Allegheny St.

JOHNSTOWN.—Geer, James H., Engr. of Constr., Cambria Steel Co. Cocher, John W., Ch. Engr., Cambria Steel Co.

Kevorkian, Zareh H., Draftsman, Cambria Steel Co.

Marshall, Stewart McCulloch, Asst. Ch. Engr., Cambria Steel Co.

Morgan, Joseph, Cons. Engr., Cambria Steel Co.

Sheperdson, John Wm., Steam Engr., Cambria Steel Co.

Swarts, Gut Taylor, Steam Engrg. Dept., Cambria Steel Co.

KITTANNING.—Paul, John Wallace, Safe Deposit Bldg.

LANCASTER.—Vandergrift, James W., Supt., Natl. Transit Co.

LANSFORD.—Straw, C. A., Mech. Supt., Lehigh Coal & Navigation Co.

LEBANON.—Crowell, William Jas., Jr., Gas and Test Engr., Am. Iron & Steel Mfg. Co.

Farrell, W. Elliston, V. P. and Genl. Mgr., M. H. Treadwell Co. of Pa., Pres., Stoeber Fdy. & Mfg. Co., Genl. Mgr. and Treas., Lebanon Steel Casting Co.

McKEESPORT.—Cornelius, William A., Mgr., Natl. Tube Co., Natl. Wks.

Hoerr, Alexander L., Steam and Hyd. Engr., Natl. Tube Co., Natl. Wks.

Saunders, A. M., Supt., Natl. Tube Co.

McKEES ROCK.—Ferrier, Walter, Supt., Carnegie Steel Co., Schoen Steel Wheel Plant.

Lockwood, Burns D., Asst. Ch. Engr., Pressed Steel Car Co.

MEADVILLE.—Bixby, William P., Erie R. R. Co.

Rogers, Robert W., Erie R. R.

MEDIA, DELAWARE CO.—Wood, William H., Engr., and Bldr. of Spec. Mchy.

MIDDLETOWN.—King, George I., Ch. Engr., Middletown Car Co.

MONONGAHELA.—Bridge, James W., Genl. Mgr., Pittsburg, Monongahela & Washington Rys. Co.

MUNHALL.—Parsons, William Claude, Blast Furnace Draftsman, Carnegie Steel Co., Homestead Steel Wks.

NARBERTH.—Leland, Frederic H., Production Engr., 122 Elmwood Ave.

NAZARETH.—Herbert, Jack Stanley, Nazareth Inn.

NORTHAMPTON.—Croll, A. Gilbert, Supt., Atlas Portland Cement Co.

OAKMONT.—Duden, Emil G., Ch. Engr., W. B. Scaife & Sons Co.

OIL CITY.—Gnade, Edward R., Oil Well Supply Co.

Platt, Wilber O., V. P. and Supt., Jos. Reid Gas Eng. Co.

Reid, Joseph, Pres., Joseph Reid Gas Eng. Co.

Steen, Arthur B., Mgr., Natl. Transit Co. Shops.

White, George Henry, Supt., Oil City Boiler Wks.

PHILADELPHIA.—Affleck, H. Watson, Pres., Keystone Engrg. Co., 719-21 Noble St.

Atterbury, Wm. Wallace, Fifth V. P., Pa. R. R. Co., Broad St. Sta.

PHILADELPHIA (Continued)

- Bancroft, J. Sellers, Genl. Mgr. and Mech. Engr., Lanston Monotype Mch. Co., 1231 Callowhill St.
- Barnes, William O., Asst. Supt., Miller Lock Co.
- Barth, Carl G., Cons. Engr., 1937 N. 33d St.
- Baush, George Henry, M. E. and Genl. Mgr., Fay Mch. Tool Co., Second and Glenwood Ave.
- Bilgram, Hugo, Machinist, 1235 Spring Garden St.
- Birkinbine, John, Cons. Engr., Odd Fellows' Temple, Broad and Cherry Sts.
- Blatchley, Chas. A., Mech. Engr., 1052 Drexel Bldg.
- Bonzano, Adolphus, Pres., Bonzano Rail Joint Co., Pennsylvania Bldg., 15th and Chestnut Sts.
- Braman, Samuel N., Westinghouse Mch. Co., 1006 N. Am. Bldg.
- Bright, Holstein DeH., Mgr., Steel and Iron Casting and Spring Depts., Standard Steel Wks. Co., Baldwin Loco. Wks., 1008 Harrison Bldg.
- Brown, Richard P., Mfr. Pyrometers, Edward Brown & Son, 311 Walnut St.
- Bruegel, A. Theodore, Business Mgr., Hess-Bright Mfg. Co., 21st St. and Fairmount Ave.
- Budd, Edward G., Mgr., Hale & Kilburn Metal Co., 19th and Glenwood Ave.
- Bullock, Samuel A., Engr., Baldwin Loco. Wks., 500 N. Broad St.
- Burnham, Wm., Pres. and Treas., Standard Steel Wks. Co., Harrison Bldg.
- Burton, Isaac Francis, Asst. Supt., Victor Talking Mch. Co.
- Buvinger, George A., Hyd. Engr., D'Olier Engrg. Co., 119-121 S. 11th St.
- Champion, Harry W., Pres., Newton Mch. Tool Wks., Inc., 24th and Vine Sts.
- Child, Edward Taggart, Box 222, Rosemont.
- Childs, Harold P., Mgr., Philadelphia Office, Westinghouse Mch. Co., North Am. Bldg.
- Christie, James, Cons. Engr., 100 Rochelle Ave., Wissahickon.
- Clark, Walton, Third V. P., United Gas Impt. Co., Broad and Arch Sts.
- Converse, Bernard T., Asst. to Supt., Baldwin Loco. Wks., 500 N. Broad St.
- Cooke, Morris Llewellyn, Cons. Engr., 401 W. Walnut Lane, Germantown.
- Cooke, St. George H., Civ. Engr., R. E. Trust Bldg.
- Crofoot, George Emerson, Instr., Mech. Engrg., Univ. of Pa.
- Dallett, Elijah, M. E., Midvale Steel Co.
- Dallett, W. P., Hyd. Engr. and Contr., 49 N. Seventh St.
- Daugherty, Frank, Cons. Engr., Scofield Engrg. Co., 1324 Arcade Bldg.
- Dawes, Robert, V. P. and Supt., Haskell, Dawes Mch. Co., Erie and Trenton Aves.
- Day, Charles, Member of Firm, Dodge & Day, Engrs., Washington Bldg., 608 Chestnut St.
- Dodge, James Mapes, Chairman of Bd., Link-Belt Co., and Pres., J. M. Dodge Co.
- Dodge, Kern, Member of Firm, Dodge & Day, Washington Bldg., 608 Chestnut St.
- Donovan, Wm. F., Pres., Blackstaff & Co., 1332 Walnut St.
- Doud, Arthur T., Mech. Engr., Hale-Kilburn Metal Co., Glenwood Ave. and 19th St.

PHILADELPHIA (Continued)

- Drysdale, Dr. W. A., Cons. Elec. Engr., 415 Hale Bldg., Juniper and Chestnut Sts.
- Earle, Edgar P., Pres., Earle Gear & Mch. Co., Stenton and Wyoming Aves., Wayne Jct.
- Easby, Francis H., 3316 Powelton Ave.
- Ehlers, Peter, Ch. Engr., Wm. I. McCahan Sugar Refining Co., Foot Tasker St.
- Ely, Theo. N., Chief of M. P., Pa. R. R. System, E. and W. of Pittsburg, Broad St. Sta.
- Eynon, Thomas M., Pres., Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
- Fairbanks, Adolphe S., Engrg. Dept., Vandyck Churchill Co., 917 Arch St.
- Felton, Edgar Conway, Pres., Penn. Steel Co., 300 Franklin Bank Bldg.
- Firth, William Edgar, Ch. Engr., Midvale Steel Co.
- Fischer, Ad. Koerting, Pres., Schutte & Koerting Co., 12th and Thompson St.
- Flagg, Stanley G., Jr., S. G. Flagg & Co., 424 N. 19th St.
- Ford, Bruce, Engr., Electric Storage Battery Co., 19th St. and Allegheny Ave.
- Francis, Harry C., Pres. and Dir., Francis Bros. & Jellett, Inc., 315 N. 15th St.
- Francis, W. H., Union League Club.
- Freeman, Perry John, Instr., Mech. Engrg., Univ. of Pa.
- Fuller, Allen Jenckes, Supt., Bureau of Water, City Hall.
- Fulweiler, John Edwin, Cons. Engr., 4335 Chestnut St.
- Gibson, Jas. Edwin, Asst. Engr., Am. Pipe Mfg. Co., 112 N. Broad St.
- Giele, Walter S., Harrison Safety Boiler Wks.
- Goetz, Victor J., Refrig. Engr. and Contr., Rep., Brunswick Refrig. Co., 206 S. 11th St.
- Gordon, Fred W., 43 E. Walnut Lane.
- Gray, John Wilson, Rep., Newport News Shipbuilding & Dry Dock Co., 4529 Locust St.
- Green, Thomas W., Ch. Engr., Wilbraham-Green Blower Co.
- Greene, Harris Ray, Mgr., Phila. Office, Powers Regulator Co., Parson Mfg. Co., 1716 Sansom St.; also New Haven, Conn.
- Hagman, W. J., Genl. Mgr., Niles-Bement-Pond Co., 21st and Calowhill Sts.
- Hagy, J. L., 1525 Montgomery Ave.
- Haines, Edward Preston, Mech. Engr., Sun Power Co., Tacony.
- Hall, Robert E., Asst. to V. P., Francis Bros. & Jellett, Inc., 315 N. 15th St.
- Halsey, Jas. T., Motor Trucks, 336-338 York Ave.
- Hand, Francis Ludlam, 1948 N. 18th St.
- Hansell, William H., Member of Firm, Smith & Hansell, Cons. Engrs., 904 Provident Bldg.
- Harvey, Minor, Engr., Morse, Williams & Co.
- Haskins, Harry S., 1524 N. 15th St.
- Hathaway, H. K., V. P., Tabor Mfg. Co., 18th and Hamilton Sts.
- Head, Francis, Mech. Engr., Bureau of Water, 790 City Hall.
- Hess, Henry, Pres., Hess-Bright Mfg. Co., 21st and Fairmount Ave.
- Hibbert, Walter W., Supvg. Engr., 415 Hale Bldg.
- Hiller, Joseph Lilburne, Mech. Engr., Pa. Crusher Co., Stephen Girard Bldg.

PHILADELPHIA (Continued)

- Howard-Smith, Spurrier, Treas., Link-Belt Co., Nicetown.
 Howell, Edward I. H., Mech. Engr., Rm. 260, Bullitt Bldg.
 Jackson, Arthur C., Supt., Secy. and Treas., Miller Lock Co.,
 4533 Tacony St.
 Jenks, Glen F., Capt., Ordnance Dept., U. S. A., Frankford
 Arsenal.
 Jones, Jarrard E., U. S. S. South Carolina, Cramp's Shipyard.
 Jones, Washington, 1632 N. 15th St.
 Jones, William R., Engr. of Constr., Univ. of Pa.
 Keller, W. H., Supt., Keller Mfg. Co., 21st St. and Allegheny
 Ave.
 Kelly, Gregory C., Mgr., Gregory C. Kelly Co., 418 Stephen Girard
 Bldg.
 Kenney, Lewis H., Draftsman-in-charge, Mfg. Dept., Mchy. Div.,
 Navy Yard.
 Kerr, William C., Mech. Engr., Phila. Rapid Transit Co., Ninth
 and Dauphin Sts.
 Kinder, J. J. de, M. E. and Atty-at-Law, Franklin Bank Bldg.
 King, Charles W. G., Supt., U. S. Metallic Packing Co.
 Kirkup, Joseph P., Phila. Mgr., L. J. Wing Mfg. Co., Phila.
 Bourse.
 Klumpp, John Bartleman, Insp. Engr., United Gas Improvement
 Co., Broad and Arch Sts.
 Kneass, Strickland L., Mgr., Injector Dept., Wm. Sellers & Co.,
 1600 Hamilton St.
 Ladd, Jas. B., Cons. Engr., Mut. Life Bldg., 1011 Chestnut St.
 Lafore, John Armand, Sales Mgr., D'Olier Engrg. Co., 119 S. 11th
 St.
 Land, Frank, Secy. and Treas., Land, Wharton Co., 912 Pa. Bldg.
 Lauer, Conrad N., Mgr., Dodge & Day, Wash. Bldg., 608 Chestnut
 St.
 Lawrence, J. P. Stuart, Capt., U. S. N., Art Club; also Washing-
 ton, D. C.
 Lewis, Wilfred, Pres., Tabor Mfg. Co., 18th and Hamilton Sts.
 Lynch, Edward P., R. E. Trust Bldg.
 Longstreth, Charles, Pres., U. S. Metallic Packing Co., 427 N. 13th
 St.
 Loss, Henrik V., Cons. Engr., North Am. Bldg.
 Lovell, Alfred, Cons. Engr., 819 Harrison Bldg.
 Lowe, Wm. Vose, Engr. and Salesman, Hess-Bright Mfg. Co.;
 also Fitchburg, Mass.
 McBride, Thomas C., Sales Mgr., Internatl. Steam Pump Co.,
 North Am. Bldg.
 Machold, Charles E., Mech. Engr., Machold & Riddell, Engrs. and
 Contractors, Stephen Girard Bldg.
 Melville, Geo. W., Rear Adm., Engr. in Chief, U. S. N., Ret., Mel-
 ville & Macalpine, Cons. Engrs. and Naval Archs., 532 Wal-
 nut St.
 Miller, Frank Louis, Erecting Engr., Southwark Fdy. & Mch. Co.
 Mirkill, Thomas H., Jr., Genl. Supt., Southwark Fdy. & Mch. Co.
 Morris, Henry G., 333 Walnut St.
 Mott, Abram Cox, Jr., Second V. P. and Genl. Mgr., Abram Cox
 Stove Co., American and Dauphin Sts.
 Muckle, John S., Mech. Engr., West End Trust Bldg.
 Muckle, M. R., Jr., Mech. Engr., 1722 Pine St.
 Murphy, Edward Thomas, Mgr., Phila. Office, Buffalo Forge Co.,
 1303 Land Title Bldg.

PHILADELPHIA (Continued)

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Norris, Wm. H., Mech. Engr., Phila. Elec. Co., 1000 Chestnut St. Parker, John C., Genl. Mgr., Parker Boiler Co., Pa. Bldg.

Patterson, Wistar E., Production Clerk, Elec. Storage Battery Co.

Pleasanton, F. Rodney, Industrial Engr., Smith & Furbush Mch. Co., Hancock and Somerset Sts.

Poultney, John Livingston, Contr. Engr., 112 N. Broad St.

Ramsden, John Thomas, Tabor Mfg. Co., 18th and Hamilton Sts.

Riddell, A. H., Machold & Riddell, 1020 Stephen Girard Bldg.

Rippey, Samuel Howard, Cons. Engr., Sellers & Rippey, Stephen Girard Bldg.

Roberts, Percival, Jr., 717 Arcade Bldg.

Rommel, Charles E., Commander, U. S. Navy, Ret., 1904 Spring Garden St.

Rusby, John M., Engr. of Tests, United Gas Imp. Co., Broad and Arch Sts.

Salter, Thomas Fitch, Ch. Engr., Standard Roller Bearing Co., 50th and Lancaster Ave.

Sargent, Wm. Prescott, Curtis Publ. Co.

Satherberg, Carl Hugo, Ch. Engr., Midvale Steel Co., Nicetown

Schakel, Jacob Daniel, Asst. Mech. Engr., Otis Elev. Co., cor. 12th and Sansom Sts.

Schaum, Otto W., Schaum & Uhlinger, Mfrs. of Mchy., Glenwood Ave. and Second St.

Schoff, George C., Rep., Babcock & Wilcox Co., 1010 No. Am. Bldg.

Schreuder, Andrew M., Supt., Phila. Textile Mchy. Co., Hancock and Somerset Sts.

Schumann, Francis, Mech. and Civ. Engr., 15 Pelham Rd., German-town.

Sears, Willard T., Mech. Engr., Engrg. Bureau, Niles-Bement-Pond Co., 21st and Callowhill Sts.

Sellers, Coleman, Jr., Pres. and Engr., Wm. Sellers & Co., Inc., 1600 Hamilton St.

Shaw, Arthur D., Engr., Link-Belt Co., Nicetown.

Shelmire, W. H., Jr., Mech. Engr., Supv. Engr., John Lang Paper Co., 24th and Vine Sts.

Sheppard, John Leefe, Jr., Supt. of Constr., Am. Rys. Co.; also Scranton Ry. Co., Scranton, Pa.

Sibson, Horace E., Mech. Engr., Harrison Safety Boiler Wks., 17th St. and Allegheny Ave.

Sinclair, Geo. M., Cons. Engr., 618 Chestnut St.

Smith, Gilbert S., Engr., 1228-30 Race St.

Smith, T. Carpenter, Mech. Engr., 220 S. Broad St.

Spackman, Henry S., Pres., Henry S. Spackman Engrg. Co., 42 N. 16th St.

Spangler, H. W., Prof. Mech. Engrg., Univ. of Pa.

Spencer, William J., Genl. Sales Mgr., Wyndmoor, Chestnut Hill.

Stacks, H. Roy, Supt., Geo. V. Cresson Co., 18th and Allegheny Ave.

Stevenson, A. A., V. P., Standard Steel Wks., 1103 Harrison Bldg.

Stokes, Samuel E., 5419 Wayne Ave., Germantown.

PHILADELPHIA (Continued)

- Strobel, Victor O., Genl. Mgr., Crane Dept., Niles-Bement-Pond Co., Mifflin and Meadow Sts.
 Strouse, Sidney B., Engr., Pa. Engrg. Co.
 Tabor, Leroy, Supt., Tabor Mfg. Co., 18th and Hamilton Sts.
 Taylor, Frederick W., Cons. Engr., Highland Sta., Chestnut Hill.
 Thompson, Samuel Kesley, Cons. Mech. Engr., 703 R. E. Trust Bldg.
 Thorne, Wm. H., Engr., Wm. Sellers & Co., 1600 Hamilton St.
 Titcomb, George E., V. P., J. M. Dodge Co.
 Townsend, David, Mech. and Cons. Engr., Rm. 55, De Long Bldg., cor. 13th and Chestnut Sts.
 de Trampe, J. Adam C. L., 1703 Spruce St.
 Twining, Wm. S., Ch. Engr., Phila. Rapid Transit Co., 820 Dauphin St.
 Van Duzee, Harold, Cons. Engr., 427 Walnut St.
 Vauclain, S. M., Supt., Baldwin Loco. Wks., 500 N. Broad St.
 Warren, Ambrose Gilmore, Mech. Engr., J. W. Paxson Co., 1607 Mt. Vernon St.
 Webster, William R., Cons. and Insp. Engr., 411 Walnut St.
 Weeks, Paul, Baldwin Loco. Wks.
 Werst, Chas. Wm., Genl. Foreman, Baldwin Loco. Wks., 500 N. Broad St.
 Wheeler, Clifton Harold, V. P. and Genl. Mgr., C. H. Wheeler Mfg. Co., Lehigh Ave. and 18th St.
 White, Wm. M., Hyd. Engr., I. P. Morris Co., Beach and Ball Sts.
 Whitham, Jay M., Cons. Engr., 607 Bullitt Bldg.
 Wille, Henry Valentine, Asst. to Supt., Baldwin Loco. Wks., 500 N. Broad St.
 Williamson, Wm. C., Valley Rd. and 12th St., Oak Lane.
 Wolf, Otto C., Engr., Rms. 511-512, Denckla Bldg.
 Wood, Albert Carroll, Cons. Mech. Engr., Pa. Bldg., cor. 15th and Chestnut Sts.
 Wood, Edward R., Jr., Sales Mgr., R. D. Wood & Co., 400 Chestnut St.
 Wood, Walter, R. D. Wood & Co., 400 Chestnut St.
 Yarnall, D. Robert, Mech. Engr., 316 Preston St.
 Zimmermann, John Edward, Member of Firm, Dodge & Day, 608 Chestnut St.

PHOENIXVILLE.—Valentine, Louis Rossiter, Charles Warner Co., P. O. Box 28.

PITTSBURG.—Amsler, W. O., Engr., 647 Wabash Bldg.

- Ashworth, Daniel, Cons. Engr., U. S. Pension Office.
 Ayers, Hobart B., Genl. Mgr., H. K. Porter Co.
 Baggaley, Ralph, Fifth Ave. and Emerson St.
 Behrend, Bernard A., Elec. and Mech. Engr., 5754 Howe St., E.E.
 Bennett, Chas. W., Asst. to Pres., Am. Sheet & Tin Plate Co., 1320 Frick Bldg.
 Bentley, Ernest W., Mgr., Pittsburg office, Skinner Eng. Co., 507 Diamond Bank Bldg.
 Bowman, Franklin Meyer, Struc. Engr., Riter-Conley Mfg. Co., 55 Water St.
 Boyd, William Charles, Asst. Engr., Pittsburg Rys. Co., 435 Sixth Ave.
 Brashear, John A., Mfr., Astronomical and Physical Instruments, 1954-1964 Perrysville Ave., N. S.
 Bray, Thos. Jos., V. P., Repub. Iron & Steel Co., Frick Annex.

PITTSBURG (Continued)

- Brendlinger, Wm. B., Mgr., Ingersoll-Rand Co., 1226 Farmers' Bank Bldg.
- Brown, Donald S., Salesman, Union Bank Bldg.
- Carpenter, Henry Albert, V. P., Riter-Conley Mfg. Co., 56 Water St.
- Chess, Harvey B., Jr., 808 Aiken Ave.
- Chester, John Needels, Genl. Sales Mgr., Epping-Carpenter Co., 41st St. and A. V. R. R.
- Clapp, Geo. H., Pres., Pittsburg Testing Lab., 325 Water St.
- Coffin, Wm. Carey, Struc. Engr., Jones & Laughlin Steel Co.
- Connelley, Clifford B., Dean, Schools for Apprentices and Journeymen, Carnegie Tech. Schools, Schenley Park.
- Cornelius, Henry Robert, Sales Mgr., Wisconsin Eng. Co., 832 Frick Bldg.
- Crawford, David Francis, Genl. Supt. M. P., Pa. Lines, Union Sta.
- Dinkey, A. C., Pres., Carnegie Steel Co., Carnegie Bldg.
- Ellis, Frank I., Ch. Engr., United Eng. & Fdy. Co., 2312 Farmers' Bank Bldg.
- Elmer, Wm., M. M., P. R. R., 28th St. and Liberty Ave.
- Fickes, Edwin S., Engr. and Pur. Agt., Aluminum Co. of Am.
- Fisher, Henry Donald, Supv. Engr., Factory K, U. S. Glass Co., 18th and Merriman Ave., S. S.
- Flagg, S. B., Asst. Engr., Tech. Branch, U. S. Geolog. Survey.
- Foller, Chas. S., M. E. and Asst. Treas., 616 Farmers' Bank Bldg.
- Gardner, Kirtland C., Sales Engr., 2311 Farmers' Bank Bldg.
- Graves, James Madison, Supt., Power Stations, Allegheny County Lighting Co., 435 Sixth Ave.
- Greth, J. C. Wm., Mgr., Water Purifying Dept., Wm. B. Scaife & Sons Co.
- Hackstaff, John D., Supt., Engrg. Dept., Hope Engrg. & Supply Co., 901 Farmers' Bank Bldg.
- Hart, Rogers Bonnell, Ch. Draftsman, Pittsburg Gage & Supply Co., 30th and Liberty Sts.
- Helander, A. H., M. E., Mesta Mch. Co.
- Herron, James H., Mgr., Motch & Merryweather Mchy. Co., 1122 Farmers' Bank Bldg.
- Hiles, Elmer K., 803 Fulton Bldg.
- Hodges, Chas. Bowen, H. K. Porter & Co.'s Shop.
- Hunter, John A., Steam Engr., Am. Sheet & Tin Plate Co., Frick Bldg.
- Hunting, Eugene Nathan, Engr., Nicola Bldg. Co., Farmers' Bank Bldg.; also Welchville, Oxford Co., Me.
- Johnson, Charles W., Ch. Insp., Westinghouse Elec. & Mfg. Co.
- Kaufman, Emanuel, Mgr., Kro-Van Steel Co., 1411 Park Bldg.
- Knisely, E. S., Western Rep., Bethlehem Steel Co., 1110-13 Keystone Natl. Bank Bldg.
- Knowles, Morris, Ch. Engr., Bureau of Filtration.
- Kohler, David S., Genl. Supt., Oliver Iron & Steel Co.
- Koon, Sidney Graves, Exper. Engr., Open-Hearth Dept., Jones & Laughlin Steel Co.
- Ladd, George Tallman, Engr., 1620 Farmers' Bank Bldg.
- Lester, Bernard, Sales Engr., Westinghouse Elec. & Mfg. Co.
- Lincoln, Paul Martyn, Genl. Engr., Power Div., Westinghouse Elec. & Mfg. Co.
- Lowe, Henry Leland, Carnegie Tech. Schools.
- Lyon, Tracy, Asst. to First V. P., Westinghouse Elec. & Mfg. Co., P. O. Box 911.

PITTSBURG (Continued)

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- McKinney, W. S., Pres., McKinney Mfg. Co.
- Martin, Frederick Sheldon, Supt., Industrial Motor Dept., Westinghouse Elec. & Mfg. Co.
- Merrill, Josiah Leverett, Dist. Mgr., Burke Elec. Co., 1427 Park Bldg.
- Mesta, George, Pres., Mesta Mch. Co.,
- Moore, Lee C., Cons. Mech. Engr., Lee C. Moore & Co., 341 Sixth Ave.
- Moore, Wm. Enoch, Cons. Engr., West Pa. Ry. & Ltg. Properties, and Am. Water Wks. & Guarantee Co., 603 Bank for Savings Bldg.
- Murray, J. Weidman, Mgr., Pittsburg Office, Allis-Chalmers Co., 814 Frick Bldg.
- Newton, Lewis W., Engr., Rm. 629, Wabash Bldg.
- Patterson, Peter C., Ch. Engr., Natl. Tube Co., 554 Frick Annex.
- Pinkerton, Andrew, Elec. Engr., Am. Sheet & Tin Plate Co.
- Porterfield, Henry A., Mgr., Dexter Oil Co., 1222 Grant Blvd.
- Quigley, Jas. Edwin, Mgr., Insulation Dept., Armstrong Cork Co., 23d and River.
- Ruud, Edwin, Ruud Mfg. Co., 29th and Smallman Sts.
- Schaaake, William, Engr., Ry. Engrg. Dept., Westinghouse Elec. & Mfg. Co.
- Sewell, J. G. Clifton, United Engrg. & Fdy. Co., Farmers' Bank Bldg.
- Shields, William D., Mech. Engr., Oliver Iron & Steel Co.
- Smith, Cameron C., Pres. and Genl. Mgr., Union Steel Castings Co.
- Smith, Carl D., Asst. Engr., Tech. Branch, U. S. Geolog. Survey, 40th and Butler Sts.
- Snyder, William E., Mech. Engr., Am. Steel and Wire Co., Frick Bldg.
- Stafford, Benjamin E. D., Genl. Mgr., Flannery Bolt Co., 328 Frick Bldg.
- Stewart, Reid T., Acting Head, Engrg. Dept., and Prof. Mech. Engrg., Univ. of Pittsburg.
- Stucki, Arnold, Engr., Farmers' Bank Bldg.
- Svenson, John A. F., Mech. Engr., Bessemer Bldg.
- Taber, George H., Genl. Mgr., Gulf Refining Co., Frick Bldg. Annex.
- Tate, John M., Jr., Pres., Tate, Jones & Co., 805 Empire Bldg.
- Town, Frederic E., Local Mgr., Otis Elev. Co., Keenan Bldg.
- Trinks, Chas. Leopold W., Prof. Mech. Engrg., Carnegie Tech. Schools.
- Valentine, Warren P., Summerlea Apts., Summerlea and Elwood Sts.
- Waters, William L., Designing Engr., Westinghouse Elec. & Mfg. Co.
- Westinghouse, George.
- Williams, D. Curtis, Mech. Engr., 664 Maryland Ave.
- Wilson, Henry D., Wilson-Snyder Mfg. Co., 2 Ross St.
- Wilson, Nelson C., 209 9th St.
- Wood, Geo. R., Cons. Elec. Engr., 1207-8 Park Bldg.
- Wurts, Edward Vanuxem, Mech. Engr., United Engrg. & Fdy. Co.

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POTTSTOWN.—Chadwick, Lee S., Pres. and Genl. Mgr., Chadwick Engrg. Wks.

Jones, David Todd, Treas. and Genl. Mgr., Wilbraham-Green Blower Co.

Hagerty, Walter W., Y. M. C. A.; also Brooklyn, N. Y.

Nichols, John T., 315 King St.

POTTSVILLE, Pa.—Wright, Reginald A., Ch. Draftsman, Phila. & Reading Coal & Iron Co.

READING.—Bell, Joseph M., Mech. Engr., Reading Iron Co.

Heizmann, Lewis J., Asst. Treas. and Ch. Engr., Pa. Hardware Co.

Schuhmann, George, V. P. and Genl. Mgr., Reading Iron Co.

SCOTTDALE.—Robinson, James R., Mgr., Scottdale Fdy. & Mch. Co.

SCRANTON.—Clemens, A. B., Prin., Sch. Mech. Engrg., I. C. S.

Foster, Rufus J., V. P., Mgr., Mines and Minerals, Internatl. Text Book Co., Wyoming Ave.

Fuller, Ray W., Supt., Scranton Stove Wks.

Harris, John J., Mech. Engr., Bd. of Ed., Scranton H. S., Washington Ave. and Vine St.

Mattes, Wm. F., Ret., 514 Bd. of Trade Bldg.

Van Nostrand, Leonard Green, V. P. and Secy., Stone-Van Nostrand Co.; Asst. Secy. and Treas., Pa. Anthracite Coal Co.

Webber, Henry, Mech. Engr., Finch Mfg. Co.

SEWICKLEY.—Wadsworth, Frank L. O., Cons. Engr.

SHAMOKIN.—Mullen, John, Pres., Shamokin Iron Wks., 516 N. Franklin St.

SHARON.—Kranz, William G., Mgr., Natl. Malleable Castings Co.

Morrison, Egbert R., Asst. Mgr., Sharon Boiler Wks., and Morrison & Martin, Pat. Engrs.

SHAWNEE-ON-DELAWARE.—Worthington, Charles C., Manwala-mink.

SOUTH BETHLEHEM.—Blakeley, George Henry, Struc. Engr., Bethlehem Steel Co.

Brown, Walter S., Engr., Power Dept., Bethlehem Steel Co.

Caum, Samuel L., Mech. Engr., Edison Portland Cement Co.

Colby, Albert Ladd, Cons. Engr., and Iron and Steel Metallurgist, 447 Lehigh St.

Hawks, Arthur S., Engr., Power Dept., Bethlehem Steel Co.

Howarth, Harry A. S., P. O. Box 174.

Johnston, Archibald, First Vice President, Bethlehem Steel Co.

Klein, Arthur W., Asst. Prof. Mech. Engrg., Williams Hall, Lehigh Univ.

Klein, Joseph F., Dean of Faculty and Prof. Mech. Engrg., Williams Hall, Lehigh Univ.

Leibert, John, Supt. of Forge, Bethlehem Steel Co.

Nagle, A. F., care E. G. Grace, Genl. Mgr., Bethlehem Steel Co.

Stout, R. Paul, Engr. Exper. Ordnance, Bethlehem Steel Co.

von Philp, C., Mgr., Mchy. Dept., Bethlehem Steel Co.

Waern, Adolph Wm., Engr., Mchy. Dept., Bethlehem Steel Co.

West, Arthur, Mgr., Power Dept., Bethlehem Steel Co.

STATE COLLEGE.—Diemer, Hugo, Prof. Industrial Engrg., Pa. State College.

Jackson, John Price, Dean, Sch. of Engrg., Pa. State College, and Cons. Engr.

Wood, Arthur J., Asso. Prof., Exper. Engrg., Pa. State College,

- SWARTHMORE, DEL. CO.**—Beardsley, Arthur, Emeritus Prof. Engrg., Swarthmore College.
- TREICHLER.**—Kuntz, Wellington W.
- VANDERGRIFF.**—Anderson, Howard L., Asst. M. M., Vandergrift Wks., Am. Sheet & Tin Plate Co.
- Bodwell, Howard L., Dist. M. M., Am. Sheet & Tin Plate Co.
- WAYNESBORO.**—Frick, Abraham O., Pres., The Frick Co.
- WILKES-BARRE.**—Bunting, Douglas, Ch. Engr., Lehigh & Wilkes-Barre Coal Co.
- Coward, Herbert, Coward & Long, People's Bank Bldg.
- Dean, Arthur M., Asst. Mech. Engr., Matheson Motor Car Co.
- Jones, Edwin H., Pres., Vulcan Iron Wks., 281 S. Franklin St.
- Nicholson, Saml. T., Pres. and Genl. Mgr., Vulcan Iron Wks.
- Norris, Robert V., Cons. Engr., 524 Second Natl. Bank Bldg.
- Pope, Harold L., Engr., Matheson Motor Car Co.
- Warriner, Samuel D., V. P., Genl. Mgr., Lehigh Valley Coal Co.
- WILKINSBURG.**—Snyder, Robert M., 502 Jeanette St.
- WILLIAMSON SCHOOL P. O., DEL. CO.**—Pratt, James Alfred, Dir., Williamson Free Sch. of Mech. Trades.
- WILLIAMSPORT.**—Shepherd, Wm. G. V. P. and Genl. Mgr., Shepherd Engrg. Co.
- Wallis, James T., Supt. M. P., Erie Div., Pa. R. R., and Northern Central Ry.
- WILLOW GROVE, MONTGOMERY CO.**—Goentner, William B.
- WILMERDING.**—Conrad, Hugh Vincent, Westinghouse Air Brake Co.
- Street, Clement F., Engr., Westinghouse Air Brake Co.
- YORK.**—Campbell, Gordon, V. P. and Genl. Mgr., York Rys. Co., 27 W. Market St.
- Ekstrand, Charles, Supt., Lowell M. Palmer's Plants.
- Farquhar, Francis, Supt., A. B. Farquhar Co., Ltd.
- Felthousen, John H., Hyd. and Mech. Engr., S. Morgan Smith Co.
- Gibbs, Eugene Uz, Asst. Engr., S. Morgan Smith Co.
- Shipley, Thos., Genl. Mgr., York Mfg. Co.

PHILIPPINE ISLANDS

- MANILA.**—Blaisdell, Benjamin H., Ch. Engr., Manila Elec. R. R. & Light Co.

PORTO RICO

- FAJARDO.**—Scherr, Frederick, Jr., Asst. Engr., Fajardo Sugar Co.
- SAN JUAN.**—Saldafia, Eduardo E., Mech. Engr. and Ch. Engr., Central "Carmen," Vega-Alta.
- Teele, Fred W., Genl. Mgr., Porto Rico Rys. Co., Ltd.

RHODE ISLAND

- BRISTOL.**—Herreshoff, John B., Pres. and Treas., Herreshoff Mfg. Co.
- PAWTUCKET.**—Carpenter, James M., Pres., Treas. and Genl. Mgr., J. M. Carpenter Tap & Die Co.
- PAWTUCKET.**—Lowry, George A., V. P. and Cons. Engr., Lowry Fabric Mfg. Co., 321 Pine St.
- Lyon, J. Lawrence, 320 High St.
- Potter, James C., Pres., Potter & Johnston Mch. Co.
- Seabury, Dwight, Mill Engr. and Arch., Tyler Bldg., 12 East Ave.
- Sellew, Ernest B., Ch. Draftsman, Potter & Johnston Co.

PHENIX.—Hoxie, Frederick J.

PROVIDENCE.—Aldrich, John Gladding, V. P. and Genl. Mgr., N. E. Butt Co.

Almy, Darwin, Pres., Almy Water Tube Boiler Co., 178-184 Allen Ave.

Annan, Arthur H., Supt., R. I. Tool Co.

Babbitt, Geo. Rodney, Pres. and Treas., Am. Oil Co., 182 S. Water St.

Beaman, Elmer A., Beaman & Smith Co., Gordon and Reynolds Ave.

Bliss, Edwin C., Pres., E. C. Bliss Mfg. Co., and V. P., A. H. Bliss Co.

Blood, Louis Henry, Designer, Brown & Sharpe Mfg. Co.

Brooks, J. Ansel, Asso. Prof. Mechanics and Mech. Drawing, Brown Univ.

Buker, Henry, Brown & Sharpe Mfg. Co.

Burlingame, Luther D., Ch. Draftsman, Brown & Sharpe Mfg. Co.

Buttolph, Benjamin Gilbert, V. P. and Engr., Mfrs.' Mut. Fire Ins. Co., 815 Bannigan Bldg.

Chase, Frederic A., F. A. Chase & Co.

Connet, Frederick N., Sales Mgr., Venturi Meter Dept., Builders Iron Fdy.

Cranston, Raymond Earl, Asst. Engr., 815 Banigan Bldg.

Dart, William Crary, Pres., R. I. Tool Co.

Du Villard, Henry A., Mech. Engr., 173 George St., East Side Sta.

Estes, William Wood, Ch. Engr., R. I. Co.

Fenner, Herbert N., Pres., N. E. Butt Co.

Freeman, John R., Pres., Mfrs. Mut. Fire Ins. Co., 815 Banigan Bldg.; also Cons. Engr., N. Y. Bd. of Water Supply, 299 Broadway, New York, N. Y.

Gardiner, Andrew J., Jr., 1413 Broad St.

Giles, C. E., Agt., Am. & British Mfg. Co.

Hill, John W., Ch. Draftsman of Tools, Am. Loco. Co.

Jenks, Richard P., Mech. Engr., 735 Banigan Bldg.

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Kenerson, Wm. Herbert, Asso. Prof. Mech. Engrg., Brown Univ.

Kennedy, William A., Instr., Mech. Drawing, Brown Univ.

Locke, Warren S., Ch. Mch. Dept., Providence Tech. H. S.

Loepsinger, Albert John, Mech. Engr., Genl. Fire Extinguisher Co.

McGregor, Hugh R., Mech. Supt., Brown & Sharpe Mfg. Co.

Marble, Ernest G., Treas., Am. Ship Windlass Co.

Merritt, Arthur A., Mech. Engr., Brown & Sharpe Mfg. Co.; also Worcester, Mass.

Ode, Randolph Theodore, Secy., Providence Engrg. Wks.

Parker, John, Mch. Designer, Brown & Sharpe Mfg. Co.

Phetteplace, Thurston M., Asst. Prof. Mech. Engrg., Brown Univ.

Pingree, Edwin Daniel, V. P. and Engr., Mfrs. Mut. Fire Ins. Co., 815 Banigan Bldg.

Pitkin, Arthur Frederick, Standard Practice Engr., Auto. Dept., Am. Loco. Co.

Pitman, Stephen Minot, Secy., Narragansett Mut. Fire Ins. Co., P. O. Box 1422.

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Riley, Robert Sanford, Pres., Am. Ship Windlass Co., Box 1138.

Robertson, R. A., Treas., Providence Engrg. Wks.

Sargent, John W., Providence Engrg. Wks., 521 S. Main St.

PROVIDENCE (Continued)

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 Sharpe, Henry D., Treas., Brown & Sharpe Mfg. Co.
 Sharpe, Lucian, with Brown & Sharpe Mfg. Co., 130 Angell St.
 Sheldon, F. P., Steam, Hyd., Elec. and Mill Engr., Industrial Trust Bldg.
 Sims, Gardiner C., Pres., Wm. A. Harris Steam Eng. Co.
 Slater, Alpheus B., 274 Massachusetts Ave.
 Smith, George H., Beaman & Smith Co., Gordon and Reynolds Aves.
 Viall, William A., Secy., Brown & Sharpe Mfg. Co.
 Walker, Frank A., with B. B. & R. Knight.
 Walker, Sidney G., Engr., Mfrs. Mut. Fire Ins. Co., 815 Banigan Bldg.
 Whipple, Eugene B., Mech. Engr., 75 Westminster St.
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 Pullis, Wm. Eugene, Industrial Engr., Sayles Bleacheries.
 Reno, Harold P., Sayles Bleacheries.
 Wood, Kenneth F., Supt., Sayles Bleacheries.
WARREN.—Wightman, D. A., Cons. Engr.
WESTERLY.—Dock, Herman, Mech. Engr.

SOUTH CAROLINA

CHARLESTON.—Barkley, Matthew B., V. P., Cameron & Barkley Co., Charleston Metallic Packing Co., 160 Meeting St.
CLEMSON COLLEGE.—Earle, Samuel Broadus, Assoc. Prof. Mech. Engrg., Clemson College.
GREENVILLE.—Bannon, Leo Matthew, Asst. Supt., Union Bleaching & Finishing Co.

TENNESSEE

BEMIS, MADISON CO.—Wadleigh, George R., Asst. Mgr., Jackson Fiber Co.
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 Catlin, William Lyle, Supt., V. P., Chattanooga Mchy. Co.
 Olmstead, George C., Mech. Engr., 635 Vine St.
 Sanders, Newell, Prop., Newell Sanders Plow Co.
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JACKSON.—Collier, Wm. H., V. P., So. Motor Wks.
 Harris, H. M., Mech. Engr., 420 Chester St.
 Waterman, Charles, Supt., So. Motor Wks.
KNOXVILLE.—Ferris, Charles Edward, Prof. Mech. Engrg., Univ. of Tenn.
 Jones, Forrest R., 1702 Melrose Ave.
MEMPHIS.—York, Robert, V. P., York Lumber & Mfg. Co.
NASHVILLE.—Brown, Chas. S., Prof. Mech. Engrg. and Cons. Engr., Vanderbilt Univ.

TEXAS

AUSTIN.—Scott, Arthur Curtis, Prof. Elec. Engrg., Univ. of Texas.
CEMENT, DALLAS CO.—Griffiths, Leonard L., Genl. Supt., Texas Portland Cement Co.
COLLEGE STATION.—Fermier, Emile J., Prof. Mech. Engrg., Agri. and Mech. College of Texas.

EL PASO.—Anderson, W. E., Engr. and Mgr., Intl. Water Co.
 Jalonick, Hartwell, Cons. Engr., 7 Little Plaza.
 Morrow, Percy C., Mech. Engr., Baldwin Loco. Wks. of Philadelphia, 219 W. Overland St.
 Van Deinse, A. F., Westinghouse Elec. & Mfg. Co.
GALVESTON.—Lawrence, Samuel E., U. S. Dredge, Capt. C. W. Howell.
 McGlone, Roy G., U. S. Engr. Office.
HOUSTON.—Barrows, Lee Earle, Engr., Fuel Oil Dept., The Texas Co., Jones Bldg.; also Olean, N. Y.
 Haskell, George O., V. P., Fidelity Cotton Oil & Fertilizer Co.
 Hildenbrand, Harry, Genl. Supt., L. C. Ehle Oil Mills.
 Lufkin, Elgood Chauncey, V. P., The Texas Co.
SAN ANTONIO.—Tuttle, William B., V. P. and Genl. Mgr., San Antonio Gas & Elec. Co.; and V. P. and Genl. Mgr., San Antonio Traction Co., 305 Houston St.
TYLER.—Umstead, Chas. Henry, Supt. of Constr., U. S. Pub. Bldgs., Treas. Dept.

UTAH

PROVO.—Davoud, Vahram Y., Elec. Engr., Telluride Power Co., also Buffalo, N. Y.
 Nunn, Paul N.
 Wegg, David S., Jr., Telluride Inst., Olmsted; also Chicago, Ill.
SALT LAKE CITY.—Anderson, Leslie Douglass, Asst. Ch. Engr., U. S. Smelting, Refining & Mining Co., 920 Newhouse Bldg.
 Beckstrand, Elias H., Prof. Mech. Engrg., Univ. of Utah.
 Breen, James, Ohio Copper Co., 809 Newhouse Blk.
 McGregor, Alexander Grant, Engr., Internatl. Smelting & Refining Co.
 Repath, Charles H., Supt. of Constr., Internatl. Smelting & Refining Co.
 Trask, Walter H., Jr., Dist. Sales Mgr., Denver Engrg. Wks. Co., 316 Dooley Bldg.

VERMONT

BENNINGTON.—Beach, Charles S., Designer & Machinist, 745 Main St.
 Scott, Olin, M. E., Prop., Bennington Mch. Wks.
BURLINGTON.—Robinson, Edward, Prof. Mech. Engrg., Univ. of Vt.
PROCTOR.—Proctor, Redfield, Asst. Supt., Vt. Marble Co.
RUTLAND.—White, Edward F., Cons. Engr., Sulphur Plants, and Sand Lime Brick Plants, Pres., Rutland Mfg. Co.
SOUTH SHAFTSBURY.—Cole, L. W., Mech. Supt., Eagle Sq. Mfg. Co.
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 Hartness, James, Pres., Jones & Lamson Mch. Co.
 Slomer, Wm. Frederick, Engr. Rep., Fellows Gear Shaper Co.
 Woolson, Wm. D., Treas., Jones & Lamson Mch. Co.
WINDSOR.—Gridley, George O., Supt., Windsor Mch. Co.

VIRGINIA

BLACKSBURG.—Randolph, L. S., Cons. Engr.
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COVINGTON.—Sangster, William, Supt., Covington Mch. Co., Box 394.

- GLAMORGAN, WISE CO.—Douglass, Wm. M.
 LYNCHBURG.—Wiley, Edgar C., Cons. Engr., 914 Main St.
 NEWPORT NEWS.—Ross, Taylor W., Asst. Supt. of Hull Constr.,
 Newport News Shipbuilding & Dry Dock Co.
 NORFOLK.—Adams, Julius Leroy, Genl. Supt. Rys. and Ferries,
 Norfolk & Portsmouth Traction Co.
 Breese, Charles P., 123 Colonial Ave.
 Stanbrough, Duncan G., Dept. Yards and Docks, Navy Yard.
 RICHMOND.—Archer, Edward R., Ch. Engr., Tredegar Co.
 Beverley, Richard Carter, Partner, W. P. Longworth & Co., Engrs.
 and Contrs.
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- TOKIO.**—Sakata, S., Prof. Mech. Engrg., Tokio Tech. College, Asakusa.
- YOKOHAMA.**—Brenner, Wm. H., Managing Dir., Zemma Wks., Ltd.; also Mgr., British Columbia Mfg. Co., New Westminster, B. C., Canada.
- Gause, Fred Taylor, Genl. Mgr. for Far East, Standard Oil Co. of N. Y., Thompson & Bedford Dept.
- Hay, Alex. Stanley, Cons. Mech. Engr., P. O. Box 338.
- Nicholl, John Seymour, Acting Mgr., F. W. Horne, Importer Am. Mch., 70-C, P. O. Box 174.
- Thurn, Theodore, care J. R. Geary, Yokohama United Club.

MEXICO

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- MONTEREY, N. L.**—Clarke, Philip L., Engr., Cia. Minera Fundidora & Afinadora.
- SALTILLO, COAHUILA.**—Vandemoer, John, Engr., Apartado 64.
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NEW ZEALAND

- CHRISTCHURCH.**—Wicks, H. B. Priestly, Genl. Mgr., Elec. Dept., Scott Bros., Ltd.

NORWAY

- HAMAR.**—Jessen, Jacob, Mech. Engr., Statens Jernbaner.

RUSSIA

- PODOLSK, Moscow Gov.**—Dixon, Walter Frank, Mgr., Singer Mfg. Co.'s Wks.
- ST. PETERSBURG.**—Smith, Wm. Edward, Pres., Swedish Portland Cement Mfg. Co., P. O. Box 263.
- Weinberg, Semen G., Min. Engr., Mgr., Worthington Pumping Eng. Co.

SCOTLAND

- CLYDEBANK.**—Park, Franklin A., Mgr., Singer Mfg. Co., Ltd., Singer.
- GLASGOW, N. B.**—Arrol, Sir Wm., Engr., Dalmarnock Iron Wks., 85 Preston St.; also Seafield, Ayr.
- GREENOCK.**—Caird, Robert, Managing Dir., Caird & Co., Ltd.

SOUTH AMERICA

- BUENOS AIRES, ARGENTINE REPUBLIC.**—Pudan, Herbert Whatmough, Cons. Mech. Engr., Moreno 452.
- CHORRILLOS, PERU.**—D'Ornellas, T. V., Elec. Cons. Engr., Peruvian Gov., Calle de Lima 15.
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- Martinto, Pedro, Apartado 146.
- Wagner, Emilio F., Engr., Coca 76.
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- Pearson, Walter Ambrose, Asst. Genl. Mgr., Rio de Janeiro Tramway, Light & Power Co., Avenida Central 76.
- Tregelles, Henry, Norton Megaw & Co., Ltd.
- SAO PAULO, BRAZIL.**—Hillman, Cecil Robert, Asst. Loco. Supt., Central Office, Sao Paulo Ry. Co.
- Walmsley, W. N., Genl. Mgr., Sao Paulo Tramway, Light & Power Co., Ltd.

SWEDEN

- FALUN.**—Hammarberg, Arndt L., Ch. Engr., Stora Kopparbergs Bergslag.
- RONNEBY.**—Trotz, J. O. E., Svanevik.
- STOCKHOLM.**—Angstrom, Carl, Cons. Engr., Torstensonsgatan 6, O. Berg, P. T., Am. Vice-Consul Genl., No. 1, Strandvagen.
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SWITZERLAND

- FAIDO STA.**—Lodetti, Frank Emil.
- WINTERTHUR.**—Sulzer, Jacob Carl, Sulzer Bros.
- ZURICH.**—Spoerri, Henry, Mech. Cons. Engr., Spoerri & Co., Bergstrasse 76.

PRESENT ADDRESS UNKNOWN

- Boland, Frederick A.
- Clemens, Charles William.
- Johnston, Chas. R.
- Lucas, Henry van Noye, Jr.
- Wilbur, Ralston T.
- Winter, Oscar.

SUMMARY OF MEMBERSHIP BY RESIDENCE

UNITED STATES

Alabama	19	Nebraska	5
Alaska	1	Nevada	3
Arizona	5	New Hampshire	15
Arkansas	2	New Jersey	202
California	74	New Mexico	2
Colorado	30	New York	1,062
Connecticut	144	North Carolina	13
Delaware	18	North Dakota	1
District of Columbia.....	32	Ohio	277
Georgia	19	Oklahoma	1
Hawaii	3	Oregon	11
Idaho	2	Pennsylvania	459
Illinois	241	Philippine Islands.....	1
Indiana	59	Porto Rico	3
Iowa	9	Rhode Island	69
Kansas	11	South Carolina	3
Kentucky	6	Tennessee	13
Louisiana	30	Texas	15
Maine	15	Utah	9
Maryland	33	Vermont	11
Massachusetts	339	Virginia	28
Michigan	110	Washington	15
Minnesota	22	West Virginia	8
Mississippi	1	Wisconsin	93
Missouri	64	Wyoming	1
Montana	10		
		Total	3,619

FOREIGN COUNTRIES

Africa	14	India	4
Australia	8	Italy	1
Belgium	5	Japan	9
Canada	45	Mexico	14
Central America	6	New Zealand	1
China	3	Norway	1
Cuba	4	Russia	3
England	45	Scotland	3
Finland	1	South America	11
France	10	Sweden	5
Germany	8	Switzerland	3
Holland	1		
Hungary	2	Total	207

Membership in United States.....	2,619
Membership in foreign countries.....	207
Present address unknown.....	6
Total membership	3,832

MEMBERSHIP BY GRADES

Honorary members	15
Members	2,565
Associates	398
Juniors	854
Total membership (Life Members included).....	3,832

THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

GAS POWER SECTION

LISTS OF AFFILIATES
ARRANGED ALPHABETICALLY AND
GEOGRAPHICALLY

Formed Under Article 52 of the Constitution

OFFICERS OF THE GAS POWER SECTION 1910

Chairman, J. R. BIBBINS
Secretary, GEO. A. ORROK

Gas Power Executive Committee

F. H. STILLMAN, <i>Chairman</i>		G. I. ROCKWOOD
F. R. HUTTON	F. R. LOW	H. H. SUPLEE

Gas Power Membership Committee

H. R. COBLEIGH, <i>Chairman</i>		A. F. STILLMAN
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Gas Power Meetings Committee

WM. T. MAGRUDER, <i>Chairman</i>		C. W. OBERT
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Gas Power Literature Committee

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L. N. LUDY	A. J. WOOD	A. L. RICE

Gas Power Installations Committee

L. B. LENT, <i>Chairman</i>	C. B. REARICK	A. BEMENT
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Gas Power Plant Operations Committee

I. E. MOULTROP, <i>Chairman</i>		C. N. DUFFY
J. D. ANDREW		H. J. K. FREYN
C. J. DAVIDSON	C. W. WHITING	W. S. TWINING

Gas Power Standardization Committee

C. E. LUCKE, <i>Chairman</i>		E. T. ADAMS
ARTHUR WEST		JAMES D. ANDREW
J. R. BIBBINS	LOUIS C. DOELLING	H. F. SMITH

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GARNER, E. F. (Student, 1910), 306 Eddy St.
GARY, F. P. (Student, 1910), 107 Edgemoor Lane.
GOLDBERG, M. S. (Student, 1909), 102 Highland Pl.
GOLDSMITH, W. M. (Student, 1909), 4A Sheldon Court.
GRANT, A. W., Jr. (Student, 1909), 110 Edgemoor Pl.
GRAY, F. R. (Student, 1909), 113 De Witt Pl.
GREEN, J. B. (Student, 1909), Sheldon Court.
GRIMES, C. E. (Student, 1909), 523 E. Buffalo St.
HANDY, Robert H. (Student, 1909), 625 University Ave.
HARDING, H. G. (Student, 1909), 704 E. Buffalo St.
HEYWOOD, F. C. (Student, 1909), 222 University Ave.
HOLLENBERGER, Theo. J. (Student, 1909), 259 S. Main St.,
Akron, O.
HUMPHREYS, C. S. (Student, 1909), 125 Highland Pl.
ILLMER, G. M. (Student, 1909), 523 E. Buffalo St.
JONAS, M. R. (Student, 1909), 519 E. State St.
KELLOGG, E. W. (Student, 1909), 1112 N. La Salle Ave., Chicago,
Ill.
KEY, B. Frank (Student, 1909), 111 Lincoln Ave., Edgewood,
Swissvale Sta., Pittsburg, Pa.
LAMBERTON, A. M. (Student, 1909), 17 South Ave.
LAWRENCE, John H. (Student, 1909), 13 Grove Pl., Albany, N. Y.
LAY, R. P. (Student, 1910), 120 Falls St.
LEVY, M. S. (Student, 1909), 84 Sheldon Court.
LINDSAY, H. D. (Student, 1909), 415 Stewart Ave.
LOCKARD, J. P. (Student, 1909), 26 Church St., Plymouth, Pa.
LUCE, R. S. (Student, 1910), 610 E. Seneca St.
McMILLAN, R. D. (Student, 1909), 410 Eddy St.
MATTHEWS, R. (Student, 1910), 325 Dryden Rd.
MERRIHEW, L. A. (Student, 1910), 211 Eddy St.
MEYER, R. C. (Student, 1909), 507 E. Buffalo St.
MOFFAT, H. W. (Student, 1910), 202 Williams St.
MONTAGUE, Charles E. (Student, 1909), 115 W. Castle St., Syra-
cuse, N. Y.
MONTGOMERY, S. (Student, 1910), 37 East Ave.
MUDD, John P. (Student, 1909), 2101 W. Tioga St., Philadelphia, Pa.
NELSON, J. E. (Student, 1909), 303 Eddy St.
NIXDORFF, S. P. (Student, 1909), 221 Eddy St.
PAGE, W. K. (Student, 1909), Olean, N. Y.
PARCE, Donald H. (Student, 1909), 2614 Waring St., Berkeley, Cal.

CORNELL UNIVERSITY (Continued)

- PARMLEY, H. M. (Student, 1910), 502 N. Aurora St.
PEACH, P. L. (Student, 1909), 306 Eddy St.
PETERSON, A. G. (Student, 1909), 68A Sheldon Court.
POWERS, A. M. (Student, 1910), 110 Sage Pl.
PRESCOTT, C. S. (Student, 1910), 2 Central Ave.
PUTNAM, J. F. (Student, 1910), Rockefeller Hall, Cornell University.
QUICK, Ray Lewis (Student, 1909), 438 N. 34th St., Philadelphia, Pa.
REINICKER, N. G. (Student, 1909), 203 Williams St.
DE REVERE, A. W. (Student, 1910), 618 Stewart Ave.
REYNOLDS, H. B. (Student, 1909), 203 Williams St.
RHAME, F. P. (Student, 1909), Hill Crest.
RICHARDSON, L., Jr. (Student, 1909), 118 Linn St.
RICHEY, A. L. (Student, 1909), 105 Eddy St.
RICKER, C. S. (Student, 1909), 38 Fall Creek Drive.
ROSENSTEIN, L. (Student, 1909), 517 E. Buffalo St.
SAWERS, Edward H. (Student, 1909), 548 Lake Ave., Rochester, N. Y.
SCHICKEL, Norbert H. (Student, 1909), 52 E. 83d St., New York.
SEE, H. (Student, 1909), 13 South Ave.
SERRELL, J. J. (Student, 1909), 102 West Ave.
SHULTS, L. J. (Student, 1909), 1860 S. Kedzie Ave., Chicago, Ill.
SKINNER, H. A. (Student, 1909), Sheldon Court.
SMITH, D. F. (Student, 1910), 527 E. Buffalo St.
STEWART, Arthur L. (Student, 1909), 42 Prince St., Rochester, N. Y.
STRAUS, W. R. (Student, 1910), 123 Dryden Rd.
SWINNERTON, A. A. (Student, 1909), 806 E. Seneca St.
SYMES, W. H. (Student, 1909), 326 W. Church St., Marion, O.
TIFT, R. H. (Student, 1909), 15 South Ave.
TORRANCE, C. Everett (Student, 1909), 638 Stewart Ave.
TRUMP, C. C. (Student, 1910), 103 Highland Pl.
TSAI, K. T. (Student, 1909), 228 Linden Ave.
TURNER, E. T. (Student, 1909), 404 Stewart Ave.
UNCKLES, H. W. (Student, 1909), 226 Eddy St.
VAIL, A. G. (Student, 1909), Milton-on-the-Hudson, N. Y.
WALL, R. E. (Student, 1909), 110 Osmun Pl.
WANG, P. (Student, 1909), 209 College Ave.
WATROUS, R. W. (Student, 1910), 201 Dryden Rd.
WATSON, H. L. (Student, 1910), 28 Cascadilla Pl.
WESLEY, C. F. (Student, 1909), 203 College Ave.
WETHERILL, F. B. (Student, 1909), 105 Eddy St.
WHEDBEE, Edgar (Student, 1909), Box 1176, Cascadilla Bldg.
WHITTY, J. J. (Student, 1909), 429 W. Buffalo St.

CORNELL UNIVERSITY (Continued)

- WILSON, Joseph S. (Student, 1909), 404 S. Clayton St., Wilmington, Del.
 WING, S. R. (Student, 1909), 208 Dryden Rd.
 WOOD, A. P. (Student, 1909), 130 Dryden Rd.
 WOOD, S. V. (Student, 1909), 110 Osmun Pl.
 WOODWARD, Geo. W. (Student, 1909), 494 Main St., Worcester, Mass.
 YOAKUM, F. E., Jr. (Student, 1909), 71 Sheldon Court.

LELAND STANFORD, JR., UNIVERSITY

Stanford University, California

- BECKLEY, R. E. (Student, 1909), Stanford University.
 BLEE, H. H. (Student, 1909), 214 Emerson St., Palo Alto.
 BRASSY, L. P. (Student, 1909), Box 636, San José.
 BREER, Carl (Student, 1909), West Allis, Wis.
 COONRADT, Arthur C. (Student, 1909), 635 Longwood St., Rockford, Ill.
 DAUGHERTY, R. L. (Student, 1909), 415 Lytton Ave., Palo Alto.
 HERBERT, E. H. (Student, 1909), Los Altos.
 HESS, H. L. (Student, 1909), Stanford University.
 MESTON, A. F. (Student, 1909), Stanford University.
 NORWOOD, C. T. (Student, 1909), Stanford University.
 STEINBECK, C. E. (Student, 1909), Kingman, Ariz.
 VAN ETEN, Percy H. (Student, 1909), 465 Hawthorne Ave., Palo Alto.
 WARREN, H. C. (Student, 1909), Stanford University.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Boston, Mass.

- PAGE, Atwood C. (Student, 1909), 137 Newbury St.

PENNSYLVANIA STATE COLLEGE

State College, Pa.

- ABBISS, Reuben D. (Student, 1910), Sigma Chi House.
 BAILEY, Raymond W. (Student, 1910), 203 McAllister Hall.
 BRENNEMAN, Paul E. (Student, 1910), 336 McAllister Hall.
 BUSH, Charles A. (Student, 1910), 231 W. Beaver Ave.
 CASTRO, Pedro B. (Student, 1910), 232 McAllister Hall.
 CLAPP, Richard B. (Student, 1910), 420 McAllister Hall.
 CORBETT, M. S. Q. (Student, 1910), 502 Main Bldg.
 ESTEP, Albert B. (Student, 1910), 430 McAllister Hall.
 FEHR, Roy B. (Student, 1910), East Campus.
 FRICKER, Jacob E. (Student, 1910), Sigma Alpha Epsilon.
 FRID, Edward M. (Student, 1910), Sigma Alpha Epsilon.
 HEIBEL, Walter E. (Student, 1910), 427 Main Bldg.
 HELMAN, Mervyn P. (Student, 1910), P. O. Box 199.

PENNSYLVANIA STATE COLLEGE (Continued)

HOLLISTER, Elbert G. (Student, 1910), 352 McAllister Hall.
JACOBS, Guy W. (Student, 1910), 124 E. College Ave.
KERR, GEORGE W. (Student, 1910), 140 N. Atherton St.
KOWALEWSKI, Anthony J. (Student, 1910), 532 Main Bldg.
LANDIS, L. H. (Student, 1910), 223 Pine St., Steelton.
MARGARIDA, Manuel (Student, 1910), 488 Main Bldg.
MINICH, Jay A. (Student, 1910), 301 W. Beaver Ave.
MOBLEY, Roy H. (Student, 1910), Theta Psi House.
MUFFLY, Walter W. (Student, 1910), Phi Gamma Delta.
NORRIS, Harry B. (Student, 1910), Phi Gamma Delta.
OGILVIE, George E. (Student, 1910), 206 McAllister Hall.
STITT, Eugene W. (Student, 1910), Theta Psi House.
STRAYER, T. Franklin (Student, 1910), 345 W. College Ave.
STROUSE, A. F. (Student, 1910), 5705 Jackson St., Pittsburg.
STUCKEMAN, H. S. (Student, 1910), 22 Ruth St., Pittsburg.
TAYLOR, John R. (Student, 1910), 318 W. College Ave.
WALKER, Francis W. (Student, 1910), Sigma Alpha Epsilon.
WATSON, James E. (Student, 1910), 29 Track House.
WEDDELL, George C. (Student, 1910), Sigma Nu House.
WHAREN, George B. (Student, 1910), Acacia House.
WILLIAMS, Nezza N. (Student, 1910), 351 McAllister Hall.
YODER, Jacob H. (Student, 1910), Acacia House.

PURDUE UNIVERSITY**Lafayette, Ind.**

CARD, R. S. (Student, 1909), 1139 Clarkson St., Denver, Colo.
DUNHAM, Heber (Student, 1909), 817 Park Pl., Brooklyn, N. Y.
HENDERSON, T. V. (Student, 1909), 107 Chauncey Ave., West Lafayette.

STATE AGRICULTURAL COLLEGE OF OREGON**Corvallis, Ore.**

BECKER, F. H. (Student, 1909), State Agri. College of Ore.
CHRISTIANSEN, C. (Student, 1909), State Agri. College of Ore.
CROWE, E. R. (Student, 1909), State Agri. College of Ore.
KARSTETTER, J. J. (Student, 1909), State Agri. College of Ore.
KNOPF, C. L. (Student, 1909), State Agri. College of Ore.
LUSE, F. D. (Student, 1909), 973 E. Ninth St., N., Portland, Ore.
RODGERS, R. H. (Student, 1909), State Agri. College of Ore.
SCHOEL, W. A. (Student, 1909), State Agri. College of Ore.
STREBIN, J. C. (Student, 1909), State Agri. College of Ore.
ZIMMERMAN, Peter C. (Student, 1909), State Agr. College of Ore.

STEVENS INSTITUTE OF TECHNOLOGY

Hoboken, N. J.

- BACKER, L. H. (Student, 1909), 431 W. Sixth St., Plainfield.
- BADEAU, R. P. (Student, 1909), Stevens Inst. of Tech.
- BECK, G., Jr. (Student, 1909), 100 N. Maple Ave., East Orange.
- BECKWITH, C. F. (Student, 1909), 106 N. Clinton St., East Orange.
- BERGER, J. G. (Student, 1909), 18 Carlton Ave., Jersey City.
- BLUM, Joseph K. (Student, 1909), Hotel San Remo, 75th St. and Central Park W., New York, N. Y.
- BRAKMAN, John A. (Student, 1909), 271 W. 71st St., New York, N. Y.
- CADY, C. I. (Student, 1909), Walnut Terrace, Bloomfield.
- CARR, W. DeL. (Student, 1909), 15 W. Fourth St., Bayonne.
- CAWLEY, H. (Student, 1909) 91 Broad St. Newark.
- COBB, P. L. (Student, 1909), 419 Ross Ave., Wilkinsburg, Pa.
- COOK, G. C. (Student, 1909), 62 Park Ave., East Orange.
- CORT, Arthur J. (Student, 1909), 16 Academy St., South Orange.
- CRANE, F. L. (Student, 1909), 227 Rahway Ave., Elizabeth.
- CURTIS, J. B. (Student, 1909), Stevens Inst. of Tech.
- CYNHERS, J. F. (Student, 1909), 168 Dodd St., East Orange.
- DORER, O. H. (Student, 1909), 200 Stuyvesant Ave., Irvington.
- DRAUDT, C. E. (Student, 1909), 39 Cambridge Pl., Brooklyn, N. Y.
- EIDMANN, Frank L. (Student, 1909), P. O. Box 173, Lansing, Mich.
- FERGUSON, R. E. (Student, 1909), 60 S. Grove St., East Orange.
- FITZGERALD, C., Jr. (Student, 1909), Stevens Inst. of Tech.
- FORTMANN, E. (Student, 1909), 80 Hauxhurst Ave., Weehawken.
- FREYGANG, Gustav G. (Student, 1909), Engrg. Dept., Natl. Elec. Lamp Asso., 4411 Hough Ave., Cleveland, O.
- GREENIDGE, E. T. P. (Student, 1909), 507 River St.
- GUNKEL, F. H. (Student, 1909), 158 10th St.
- HARRISON, Ward (Student, 1909), 680 Bloomfield Ave., Bloomfield.
- HAYNES, H. Hasbrouck (Student, 1909), Stevens Inst. of Tech.
- HEARSAY, Winthrop O. (Student, 1909), 81 N. Grove St., East Orange.
- HELLER, Alfred (Student, 1909), 185 Sumpter Ave., Brooklyn, N. Y.
- HENKEL, Charles (Student, 1909), 189 Graham Ave., Paterson.
- HIRSCHENSOHN, B. H. (Student, 1909), 322 Park Ave.
- HOEXTER, S. J. (Student, 1909), 786 Cauldwell Ave., New York, N. Y.
- JACKSON, Lawrence (Student, 1909), 536 Hudson St.
- JAPPE, Kurt W. (Student, 1909), Main Belting Co., 1241 Carpenter St., Philadelphia, Pa.
- KASSANDER, A. R. (Student, 1909), 1350 Madison Ave., New York, N. Y.
- LUDWIG, C. H. (Student, 1909), 804 Castle Point Terrace.
- MCCARTE, Alexander J. (Student, 1909), 51 Elizabeth Ave., Newark.
- MACKEY, C. (Student, 1909), 116 W. 102d St., New York, N. Y.

STEVENS INSTITUTE OF TECHNOLOGY (Continued)

- MESSNER, M. (Student, 1909), 106 W. Eighth St., Bayonne.
MOBIUS, Curt E. (Student, 1909), Stevens Inst. of Tech.
NYLAND, E. (Student, 1909), Stevens Inst. of Tech.
OGDEN, N. (Student, 1909), 216 Summit Ave., Summit.
PEASE, L. M. (Student, 1909), 94 Knickerbocker Rd., Englewood.
PEPER, John H., Jr. (Student, 1909), 364 Lafayette Ave., Brooklyn, N. Y.
PRICE, T. (Student, 1909), 65 Newell Ave., Rutherford,
ROSCOE, A. P. (Student, 1909), Oakley Ave., Ozone Park, L. I., N. Y.
SIERADZKI, A. (Student, 1909), 222 W. 141st St., New York, N. Y.
SIEVERS, E. J. J. (Student, 1909), 65 Willow Ave.
STEWART, Chas. A., Jr. (Student, 1909), 841 Lincoln Pl., Brooklyn, N. Y.
TERWILLIGER, Gerald E. (Student, 1909), 28 Fabyan Pl., Newark.
UPSON, Ralph H. (Student, 1909), 61 Douglas Rd., Glen Ridge.
VENNEMA, A. W. (Student, 1909), 185 Paulison Ave., Passaic.
WARE, John S., Jr. (Student, 1909), 179 William St., East Orange.
WHYTE, A. C. (Student, 1909), Ridgefield Park.
ZEEK, Raymond N. (Student, 1909), 507 River St.

UNIVERSITY OF CINCINNATI
Cincinnati, O.

- BESS, E. H. (Student, 1910), 2333 Wheeler St.
BINNS, G. W. (Student, 1910), 2614 Dennis St.
BONNELL, W. W. (Student, 1910), 2314 Nelson Ave.
BREITENBACH, H. J. (Student, 1910), 28 Mulberry St.
CONNOR, A. B. (Student, 1910), 1034 Findlay St.
COOK, H. B. (Student, 1910), Milford.
CRAGG, W. S. (Student, 1910), 732 Sturgis Ave., Hartwell.
FEDERLE, J. C. (Student, 1910) 21 Fairview Ave., Hamilton.
GETZ, C. H. (Student, 1910), 2091 Harrison Ave.
HAINES, P. G. (Student, 1910), 2411 Highland St., Norwood.
HERRMANN, J. M. (Student, 1910), Homestead Pl.
JAHNKE, C. B. (Student, 1910), 29 Mulberry St.
JOHNSON, R. L. (Student, 1910), 604 Dayton Ave., Dayton, Ky.
KRAMPE, H. J. (Student, 1910), 1742 Queen City Ave.
MALONE, C. J. (Student, 1910), 2333 Wheeler St.
MATHEWSON, J. S. (Student, 1910), 4222 Chamber St.
MONTGOMERY, W. H. (Student, 1910), 2322 Nelson St.
OTTING, E. F. (Student, 1910), 3908 Glenway Ave.
PEASLEE, W. (Student, 1910), 2356 Ohio Ave.
RANSON, Pryce (Student, 1910), 1719 Scott St., Covington, Ky.
RELLER, O. R. (Student, 1910), 2714 Vine St.
ROYOR, E. B. (Student, 1910), 3516 Sedler St., Price Hill.
STEWART, H. M. (Student, 1910), 2614 Dennis St.

UNIVERSITY OF ILLINOIS
Urbana, Ill.

- ALTEKRUSE, I. B. (Student, 1909), 409 W. Main St.
 CARNAHAN, O. A. (Student, 1909), 212 E. Clark St., Champaign.
 COLEMAN, Wm. F. (Student, 1909), Rm. 337, Association Hall, Champaign.
 COYLE, J. F. (Student, 1909), 2218 E. 101st St., Cleveland, O.
 CRAIG, Ollison (Student, 1909), 1143 Portland Pl., Boulder, Colo.
 CRISTY, H. E. (Student, 1909), Box 1014, Bisbee, Ariz.
 DOLE, I. B. (Student, 1909), 405 E. Daniel St., Champaign.
 DUNSHEATH, L. M. (Student, 1909), 509 S. Fourth St., Champaign.
 EVANS, M. E. (Student, 1909), Chebanse.
 GROSBERG, A. S. (Student, 1909), 603 E. Stoughton St., Champaign.
 GULLEY, L. R. (Student, 1909), 907 Nevada St.
 HARKNESS, O. L. (Student, 1910), Association House, Champaign.
 HASKELL, W. M. (Student, 1909), Sterling.
 HEILMAN, H. C. (Student, 1909), 1005 S. Fourth St., Champaign.
 HEISLAR, C. S. (Student, 1909), 308 W. High St.
 HERRMANN, George A. (Student, 1909), Rm. 1720, Ry. Exch. Bldg., Chicago.
 HOLCH, R. E. (Student, 1909), Gillman.
 HUGHES, W. J. (Student, 1909), 202 E. Green St., Champaign.
 HUNTINGTON, C. S. (Student, 1909), 906 S. Fifth Ave., Champaign.
 JANDA, Jas. F. (Student, 1909), 1001 S. Fifth St., Champaign.
 JEHL, Ferdinand (Student, 1909), 101 E. John St., Champaign.
 KANNAZIN, John (Student, 1910), Univ. of Ill.
 KEOWN, B. L. (Student, 1909), 511 E. White St., Champaign.
 KREIDLER, D. W. (Student, 1909), 410 Chalmes St., Champaign.
 KUPPATRICK, H. J. (Student, 1909), 501 E. Green St., Champaign.
 LUND, J. C. (Student, 1909), 305 S. Wright St., Champaign.
 LURIE, A. N. (Student, 1909), present address unknown.
 MCGINNIS, H. D. (Student, 1909), H. B. Smith Co., Westfield, Mass.
 MCLEAN, J. C. (Student, 1909), 505 E. Green St., Champaign.
 McMILLAN, E. C. (Student, 1909), Carthage.
 MANSFIELD, W. M. (Student, 1909), 582 Jackson St., Milwaukee, Wis.
 MOSCHEL, H. (Student, 1909), 405 E. Green St., Champaign.
 NICHOLAS, E. E. (Student, 1909), 2907 Seventh Ave., Rock Island.
 PARMELY, J. C. (Student, 1909), 1106 W. University Ave.
 PEMBERTON, Carlysle (Student, 1909), 608 E. Green St., Champaign.
 POE, F. M. (Student, 1909), 908 W. Illinois St.
 RORING, F. G. (Student, 1910), Univ. of Ill.
 RUGG, D. M. (Student, 1909), 507 W. University Ave., Champaign.
 SCHUSTER, George (Student, 1909), 407 Stoughton St., Champaign.
 SPERRY, F. E. (Student, 1909), 583 Benton St., Aurora.

UNIVERSITY OF ILLINOIS (Continued)

SPONSEL, J. G. (Student, 1909), 304 E. Daniel St., Champaign.

WESTLAND, A. F. (Student, 1909), 1202 W. Main St.

WOLF, J. E. (Student, 1909), address unknown.

WOOD, S. G. (Student, 1909), 706 S. Wright St., Champaign.

UNIVERSITY OF KANSAS

Lawrence, Kan.

BOHNSTENGEL, Walter (Student, 1909), 1111 Kentucky St.

BRIGHAM, C. M. (Student, 1909), 23 E. Lee St.

GARVER, John D. (Student, 1909), 715 Harrison St., Topeka.

HILFORD, V. H. (Student, 1909), 1025 Kentucky St.

JOHNSON, C. E. (Student, 1909), 736 Maine St.

PLANK, Wm. Jay (Student, 1909), 814 Alabama St.

SWIGGETT, C. A. (Student, 1909), 814 Alabama St.

UNIVERSITY OF WISCONSIN

Madison, Wis.

ALLEN, C. H. (Student, 1910), 6 N. Butler St.

BLACK, W. (Student, 1910), 126 E. Dayton St.

BLEYER, Addison M. (Student, 1910), 625 Langdon St.

GLEASON, E. P. (Student, 1910), 722 Conklin Pl.

GLICK, G. A. (Student, 1910), 407 Wisconsin Ave.

GODFREY, P. S. (Student, 1910), 428 Murray St.

HEBBARD, L. L. (Student, 1910), 619 Francis St.

HOLVERSCHEID, R. (Student, 1910), 627 Lake St.

KASTLER, E. L. (Student, 1910), 209 W. Gilman St.

KRAATZ, K. L. (Student, 1910), 1203 W. Dayton St.

LANGWILL, John S. (Student, 1910), 608 W. Dayton St.

LARSON, L. C. (Student, 1910), 210 Carroll St.

LINLEY, F. H. (Student, 1910), 919 University St.

McARTHUR, A., Jr. (Student, 1910), 428 Charter St.

McCAIN, W. R. (Student, 1910), 740 Langdon St.

MOORE, R. S. (Student, 1910), 515 Francis St.

MUELLER, B. H. (Student, 1910), 810 W. Dayton St.

PEARSAL, A. C. (Student, 1910), 620 Lake St.

RUEDEBUSCH, R. A. (Student, 1910), 308 Johnson Court.

SCHULTZ, A. F. (Student, 1910), 725 University Ave.

SPOOR, I. H. (Student, 1910), 1124 W. Johnson St.

STEUDAL, C. E. (Student, 1910), 341 W. Johnson St.

TRANE, R. N. (Student, 1910), 604 Francis St.

WATSON, R. D. (Student, 1910), 402 Murray St.

WEGNER, A. A. (Student, 1910), 1203 W. Dayton St.

WORKMAN, D. M. (Student, 1910), 230 Brooks St.

STUDENT BRANCHES

SUMMARY OF AFFILIATES

Armour Institute of Technology.....	16
Brooklyn Polytechnic Institute.....	21
Columbia University	2
Cornell University	116
Leland Stanford, Jr., University.....	13
Massachusetts Institute of Technology.....	1
Pennsylvania State College.....	35
Purdue University	3
State Agricultural College of Oregon.....	10
Stevens Institute of Technology.....	55
University of Cincinnati.....	23
University of Illinois.....	43
University of Kansas.....	7
University of Wisconsin.....	26
Total	<hr/> 371

CHARTER

CERTIFICATE OF INCORPORATION OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS AND THE MECHANICAL ENGINEERS LIBRARY ASSOCIATION, TOGETHER WITH THE ORDER OF THE SUPREME COURT FOR THEIR CONSOLIDATION.

ORDER FOR CONSOLIDATION

At a Special Term, Part II, of the New York Supreme Court, held in and for the City and County of New York, in the County Court House, Borough of Manhattan, City of New York, on the 17th day of October, 1907.

PRESENT:

HONORABLE JAMES A. BLANCHARD,

Justice

IN THE MATTER OF THE PETITION
OF

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS AND OF THE MECHANICAL ENGINEERS' LIBRARY ASSOCIATION, FOR AN ORDER CONSOLIDATING THEM INTO ONE CORPORATION.

Upon reading and filing the annexed petition of The American Society of Mechanical Engineers, verified on the 15th day of October, 1907; and the petition of The Mechanical Engineers' Library Association, verified the 15th day of October, 1907; and the agreement of consolidation, entered into between The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association, on the 16th day of September, 1907; and the certificate of approval by the Chairman and Clerk of a meeting of the Fellows of The Mechanical Engineers' Library Association, duly acknowledged on the 15th day of October, 1907; and the certificate of approval by the Chairman and Clerk of a meeting of the members of The American Society of Mechanical Engineers, duly acknowledged on the 15th day of October, 1907;

And it appearing to the satisfaction of the Court from the aforesaid papers that The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association are membership corporations, incorporated under the laws of the State of New York, for kindred purposes, being purposes for which a corporation may be formed under the Membership Corporations' Law of the State of New York; and that the said corporations have heretofore duly entered into an agreement for the consolidation of said corporations, which said agreement sets forth the terms and conditions of consolidation, the name of the proposed corporation, the number of its Directors, the time of the annual election, and the names of the persons to be Directors until the first annual meeting;

That each of the said corporations has duly petitioned the Supreme Court for an order consolidating the two corporations, which

said petition sets forth the agreement for consolidation, and a statement of all the property and liabilities, and the amount and sources of its annual income of each of said corporations; and that before the presentation of the said petition to this Court the agreement and the petition were approved by more than three-fourths of the votes legally cast at a meeting of said corporations, separately and specially called for that purpose, which approval, duly verified by the Chairman and Clerk of such meeting, is duly annexed to said petitions;

And the Court being satisfied that the said petition should be granted;

NOW, THEREFORE, Upon motion of Porter and Barnes, attorneys for the petitioners;

IT IS HEREBY ORDERED, That The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association, as they now exist, be and the same hereby are, in accordance with Section VII, Article I of the Membership Corporations' Law of the State of New York, consolidated into one corporation, upon the following terms and conditions; to wit—

That the two corporations be consolidated into one corporation; that all the property now owned by either of the two corporations be owned by the one consolidated corporation; that all the liabilities of either of the two corporations shall be assumed and paid by the one consolidated corporation; that the members of each of the two corporations shall become, without the payment of any initiation fees, or other dues, members in equal standing in the one consolidated corporation; that the consolidated corporation shall be governed by the Constitution, and By-Laws and Rules of The American Society of Mechanical Engineers, as the same exist at the time of the signing of this order; that the name of the new consolidated corporation shall be "THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS," that the number of the Directors of the new corporation shall be twenty-two; that the annual election shall be held on the second Tuesday of December of each year; that the names of the persons to be Directors of the corporation until the first annual meeting shall be:

FREDERICK R. HUTTON
WALTER M. McFARLAND
EDWARD N. TRUMP
ROBERT C. McKINNEY
ALEX DOW
P. W. GATES
J. W. LIEB, JR.
WM. H. WILEY
A. L. RIKER
GEO. M. BRILL
FRED J. MILLER

RICHARD H. RICE
WALTER LAIDLAW
FRANK G. TALLMAN
FREDERICK M. PRESCOTT
A. J. CALDWELL
G. M. BASFORD
F. W. TAYLOR
JOHN R. FREEMAN
AMBROSE SWASEY
JAMES M. DODGE
EDWIN REYNOLDS

ENTER

J. A. BLANCHARD

Justice of the Supreme Court

CONSTITUTION

NAME, OBJECT, AND GOVERNMENT

C 1 The title of this Society is "The American Society of Mechanical Engineers."

C 2 The object of the Society is to promote the Arts and Sciences connected with Engineering and Mechanical Construction. The principal means for this purpose shall be the holding of meetings for the reading and discussion of professional papers, and for social intercourse; the publication and distribution of its papers and discussions; and the maintenance of an Engineering Library.

C 3 The Society shall be governed by this Constitution and by By-Laws and Rules in harmony therewith.

C 4 The Society was organized as a Corporation under the laws of the State of New York, April 7, 1880. Its offices shall be located in the City of New York.

MEMBERSHIP

C 5 Persons connected with the Arts and Sciences relating to Engineering or Mechanical Construction may be eligible for admission into the Society.

C 6 The membership of the Society shall consist of Honorary Members, Members, Associates, and Juniors. Honorary Members, Members, and Associates are entitled to vote and to hold office. Juniors shall not be entitled to vote nor to be officers of the Society, but shall be entitled to the other privileges of membership.

C 7 Honorary Members, Members, and Associates are entitled to vote on all questions before any meeting of the Society, in person or by proxy, given to a voting member. A proxy shall not be valid for a greater time than for six months.

C 8 Honorary Members shall be persons of acknowledged professional eminence, and their number shall not exceed 25 at any time.

C 9 A Member shall be 30 years of age or over. He must have been so connected with Engineering as to be competent, as a designer or as a constructor, to take responsible charge of work in his branch of Engineering, or he must have served as a teacher of Engineering for more than five years.

C 10 An Associate shall be 26 years of age or over. He must either have the other qualifications of a Member or be so connected with Engineering as to be competent to take charge of engineering work, or to co-operate with Engineers.

C 11 A Junior shall be 21 years of age or over. He must have had such engineering experience as will enable him to fill a responsible subordinate position in engineering work, or he must be a graduate of an engineering school.

C 12 The rights and privileges of every Honorary Member, Member, Associate, and Junior shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

Note.—The Rules of the Society adopted in 1880 were in force until 1884, when they received general revision by a careful committee whose report, distributed by letter-ballot, was adopted November 5, 1884. In December, 1894, a similar extensive revision was made under the direction of the Council, and in December, 1903, the present Constitution, By-Laws and Rules, formulated by a special committee, were adopted and went into effect.

ADMISSION

C 13 Honorary Members shall be nominated by at least ten members of the Society. The grounds upon which the nomination is made shall be presented to the Council in writing.

C 14 All applications for membership to the grades of Member, Associate, or Junior, shall be presented to the Council, which shall consider and act upon each application, assigning each approved applicant to the grade of membership to which, in the judgment of the Council, his qualifications entitle him. The name of each candidate thus approved by the Council shall, unless objection is made by the applicant, be submitted to the voting membership for election, by means of a letter-ballot.

C 15 Associates or Juniors desiring to change their grade or membership shall make application to the Council in the same manner as is required in the case of a new applicant.

C 16 Election to membership shall be by a sealed letter-ballot as the By-Laws shall provide. Adverse votes to the number of 2 per cent of the votes cast shall be required to defeat the election of an applicant for any grade of membership. The Council may, in its discretion, order a second ballot upon a defeated applicant, in which case adverse votes to the number of 4 per cent of the votes cast shall be required to defeat the election.

C 17 The election of Honorary Members shall be by a vote of the Council taken by letter-ballot, as provided in the By-Laws. One dissenting vote shall defeat such election.

C 18 Each person elected, excepting Honorary Members, shall subscribe to this Constitution, and shall pay the initiation fee before he can be entitled to the rights and privileges of membership. If such person does not comply with this requirement within six months after notice of his election, he will be deemed to have declined election. The Council may, thereupon, declare his election void.

INITIATION FEES AND DUES

C 19 The initiation fee for membership in each grade shall be as follows:

For Member	\$25.00
For Associate	25.00
For Junior	15.00

C 20 A Junior, on promotion to any other grade of membership, shall pay an additional fee of \$10.

C 21 The annual dues for membership in each grade shall be as follows:

For Member	\$15.00
For Associate	15.00
For Junior	10.00 for the
first six years of his membership and thereafter the same	
as for an Associate.	

C 22 The Council may, in its discretion, permit any Member or Associate to become a Life Member in the same grade, by the payment at one time of an amount sufficient to purchase from the Equitable Life Assurance Society of New York, an annuity on the life of a person of the age of the applicant equal to the annual dues in his grade. Such Life Member shall not be liable thereafter for annual dues.

C 23 The Council shall have the power, by letter-ballot, to admit to Life Membership, without the payment of a life membership fee,

any person who, for a long term of years, has been a Member or an Associate when, for special reasons, such procedure would in its judgment, promote the best interests of the Society, provided that notice of such proposed action shall have been given at a previous meeting of the Council. One dissenting vote shall defeat such admission.

SUSPENSIONS AND EXPULSIONS

C 24 Any Member, Associate, or Junior, who shall leave his annual dues unpaid for one year, shall not receive the volume of Transactions until such arrears are paid. Any Member, Associate, or Junior, who shall leave his dues unpaid for two years, shall, in the discretion of the Council, have his name stricken from the roll of membership, and shall cease to have any further rights as such.

C 25 The Council may refuse to receive the dues of any member of any grade, who shall have been adjudged by the Council to have violated the Constitution or By-Laws of the Society, or who, in the opinion of the Council by a two-thirds vote, shall have been guilty of conduct rendering him unfit to continue in its membership; and the Council may expel such person and remove his name from the list of members.

THE COUNCIL

C 26 The affairs of the Society shall be managed by a Board of Directors chosen from among its Members and Associates, which shall be styled "The Council." The Council shall consist of the President of the Society, who shall be the presiding officer, six Vice-Presidents, nine Managers, the Treasurer, and five Past Presidents. Five members of the Council shall constitute a quorum for the transaction of business. The Secretary may take part in the deliberations of the Council, but shall not have a vote therein. The Chairman of the Finance Committee shall attend the meetings of the Council and take part in the discussion of financial questions, but shall not have a vote.

C 27 The five surviving Past Presidents who last held the office shall be the members of the Council, with all the rights, privileges, and duties of the other members of the Council.

C 28 The Council thus constituted shall be the legal Trustee of the Society. All gifts or bequests not designated for a specific purpose shall be invested by the Council, and only the income therefrom may be used for current expenses.

C 29 Should a vacancy occur in the Council, or in any elective office except the Presidency, through death, resignation or other cause, the Council may elect a Member or Associate to fill the vacancy until the next annual election.

C 30 The Council shall regulate its own proceedings, and may by resolution delegate specific powers to an Executive Committee or to any one or more members of the Council. No act of the Executive Committee or of a delegate shall be binding until it has been approved by a resolution of the Council.

C 31 The Council shall present at the Annual Meeting of the Society a report verified by the President or Treasurer or by a majority of the members of the Council, showing the whole amount of real and personal property owned by the Society, where located, and where and how invested, and the amount and nature of the property acquired during the year immediately preceding the date of the report, and the manner of the acquisition; the amount applied, appropriated or expended during the year immediately preceding

such date, and the purposes, objects or persons to or for which such applications, appropriations, or expenditures have been made; also the names and places of residence of the persons who have been admitted into membership in the Society during the last year, which report shall be filed with the records of the Society, and an abstract thereof shall be entered in the minutes of the proceedings of the Annual Meeting.

C 32 An act of the Council, which shall have received the expressed or implied sanction of the membership at the next subsequent meeting of the Society, shall be deemed to be the act of the Society, and shall not afterwards be impeached by any member.

C 33 The Council may, by a two-thirds vote of the members present, declare any elective office vacant, on the failure of its incumbent for one year, from inability or otherwise, to attend the Council meetings, or to perform the duties of his office, and shall thereupon appoint a Member or Associate to fill the vacancy until the next Annual Meeting. The said appointment shall not render the appointee ineligible to election to any office.

OFFICERS

C 34 At each Annual Meeting there shall be elected from among the Members and Associates:

A President to hold office for one year.

Three Vice-Presidents, each to hold office for two years.

Three Managers, each to hold office for three years.

A Treasurer, to hold office for one year.

C 35 The election of officers shall be by sealed letter-ballot, as the By-Laws shall provide.

C 36 The term of all elective officers shall begin on the adjournment of the Annual Meeting of the Society. Officers shall continue in their respective offices until their successors have been elected and have accepted their offices.

C 37 A President, Vice-President, or Manager shall not be eligible for immediate re-election to the same office at the expiration of the term for which he was elected.

C 38 The Council, at its first meeting after the Annual Meeting of the Society, shall appoint a person of the grade of Member to serve as Secretary of the Society for one year, subject to removal for cause by an affirmative vote of members of the Council, at any time after one month's written notice has been given him to show cause why he should not be removed, and he has been heard in his own defense, if he so desires. The Secretary shall receive a salary which shall be fixed by the Council at the time of his appointment.

The Council may also in its discretion appoint a person of the grade of Member to be an Honorary Secretary of the Society for a term not to exceed one year, but he may be reappointed from year to year. He shall perform such duties as may be assigned to him by the Council which are in conformity with the Constitution and By-Laws, and with or without compensation as the Council may direct.

C 39 The President, Secretary, and Treasurer shall perform the duties legally or customarily attaching to their respective offices under the laws of the State of New York, and such other duties as may be required of them by the Council.

C 40 A vacancy in the office of President shall be filled by the Vice-President, who is senior by age.

MEETINGS

C 41 The Society shall hold two meetings in each year. The Annual Meeting shall begin in New York City on the first Tuesday in December, and a Semi-Annual Meeting shall be held at such time and place as the Council may appoint. Fifty Members and Associates shall constitute a quorum for the transaction of business.

C 42 Special meetings of the Society may be called at any time at the discretion of the Council, or shall be called by the President upon the written request of fifty members entitled to vote, the notices for such meetings to state the business for which such meeting is called and no other business shall be entertained or transacted at that meeting.

C 43 Any appropriation recommended by the Society at a meeting, shall not take effect until it has been approved by the Council.

C 44 Every question which shall come before a meeting of the Society or of the Council or a Committee, shall be decided by a majority of the votes cast, unless otherwise provided in this Constitution or the By-Laws or the Laws of the State of New York. The Council may order the submission of any question to the membership for discussion by letter-ballot. Any meeting of the Society at which a quorum is present, may order the submission of any question to the membership for discussion by letter-ballot.

STANDING COMMITTEES

C 45 The Standing Committees of the Society to be appointed by the President shall be:

Finance Committee.
Committee on Meetings.
Publication Committee
Membership Committee.
Library Committee.
House Committee.
Research Committee.

C 46 There shall be a John Fritz Medal Committee of four members appointed as provided in the By-Laws.

C 47 The Annual Committees shall be:

An Executive Committee, appointed by the Council;
A Nominating Committee, appointed by the President;
Tellers as required by the By-Laws, appointed by the President.

C 48 Special Nominating Committee:

Twenty or more members entitled to vote may constitute themselves a Special Nominating Committee, with the same powers as the Annual Nominating Committee.

C 49 Professional Committees:

The Council shall have power to appoint, upon a recommendation of the Society at a general meeting, or upon its own initiative, such Professional Committees as it may deem desirable, to investigate, consider, and report upon subjects of engineering interest. Reports of such committees may be accepted by the Society and printed in the Transactions, but shall not be approved or adopted as the action of the Society. Any proposed expenses of such committees must be authorized by the Council before they are incurred.

C 50 Each committee shall perform the duties required of it in the By-Laws, or assigned to it by the Council. The Secretary of the Society shall be the Secretary of each of the Standing Committees.

C 51 The Council may at any time, in its own discretion, remove

any or all members of any committee, except a Nominating Committee; and the vacancy, arising from this or from any other cause, shall be filled by appointment by the President, except a vacancy in the Executive Committee, which shall be filled by the Council.

SECTIONS OF THE SOCIETY

C 52 The Council may, in its discretion, authorize the organization of sections or groups of any or all grades of membership, for professional or scientific purposes which are in harmony with the Constitution and By-Laws of this Society. Such sections or groups may in the discretion of the Council, be geographical or professional, and shall have such powers, and act under such rules and regulations as the Council may from time to time prescribe.

TRANSACTIONS

C 53 The official record of technical papers and discussion shall be known as the Transactions of the Society, and shall be published under the direction of the Council. There may be included therein, the annual report of the Council, reports of committees, and business records of the Society.

C 54 The Society shall claim no exclusive copyright to any papers read at its meetings, or any reports or discussions thereon, except in the matter of their official publication under the Society's imprint as its Transactions. The policy of the Society shall be to give the professional and scientific papers read before it the widest circulation possible, with the view of making the work of the Society known, encouraging Engineering progress, and extending the professional reputation of its members.

C 55 The Society shall not be responsible for statements or opinions advanced in papers or in discussions at its meetings. Matters relating to politics or purely to trade shall not be discussed at a meeting of the Society, nor be included in the Transactions.

C 56 The Society shall not approve or adopt any standard or formula, or approve any engineering or commercial enterprise. It shall not allow its imprint or name to be used in any commercial work or business

AMENDMENTS TO THE CONSTITUTION

C 57 At any semi-annual meeting of the Society any member may propose in writing an amendment to this Constitution. Such proposed amendment shall not be voted at that meeting, but shall be open to discussion and to such modification as may be accepted by the proposer. The proposed amendment shall be mailed in printed form by the Secretary to each member of the Society entitled to vote, at least sixty days previous to the next annual meeting, accompanied by comment by the Council, if it so elects. At that annual meeting such proposed amendment shall be presented for discussion and final amendment, and shall subsequently be submitted to all members entitled to vote, provided that 20 votes are cast in favor of such submission. The final vote on adoption shall be by sealed letter-ballot, closing at twelve o'clock noon, on the first Monday of March following.

C 58 The letter-ballot, accompanied by the text of the proposed amendment, shall be mailed by the Secretary to each member of the Society entitled to vote, at least 30 days previous to the closure of the voting. The ballots shall be voted, canvassed, and announced as provided in the By-Laws. The adoption of the amendment shall

be decided by a majority of the votes cast. An amendment shall take effect on the announcement of its adoption by the Presiding Officer of the semi-annual meeting next following the closure of the vote.

AMENDMENTS TO BY-LAWS AND RULES

C 59 For the further ordering of the affairs of the Society, the Council may, by a two-thirds vote of its members present, amend the By-Laws in harmony with this Constitution, provided that a written notice of such proposed amendment shall have been given at the previous regular meeting of the Council; and provided further that the Secretary shall have mailed to each member of the Council a copy of such proposed amendment, at least 30 days in advance of the meeting of the Council at which action is to be taken. The amendment shall take effect immediately on its passage by the Council. The Secretary shall at once mail a copy of such amendment to the members of all grades.

C 60 The Council may, by a majority vote of the members present at any meeting, establish, amend, or annul Rules for the conduct of the business affairs of the Society; for the ordering and conduct of its professional or business meetings, and for the guidance of its committees in their work and reports; provided that such Rules are in harmony with the Constitution and By-Laws of the Society.

CONSTITUTION GOES INTO EFFECT

C 61 This Constitution shall supersede all previous Rules of the Society, and shall go into effect on the announcement by the Presiding Officer of its adoption.

BY-LAWS

CANDIDATES FOR MEMBERSHIP

B 1 A candidate for admission to the Society as a Member or as an Associate must make application on a form approved by the Council, upon which he shall write a statement giving a complete account of his qualifications and engineering experience, and an agreement that he will, if elected, conform to the Constitution, By-Laws and Rules of the Society. He must refer to at least five Members or Associates to whom he is personally known.

B 2 Applications for membership from Engineers who are not resident in the United States or Canada, and who may be so situated as not to be personally known to five Members of the Society, as required in the foregoing paragraph, may be recommended for ballot by five members of the Council, after sufficient evidence has been secured to show that in their opinion the applicant is worthy of admission to the grade which he seeks.

B 3 A candidate for admission to the Society as a Junior must make application in the same manner as provided for Members, except that he must refer to not less than three Members or Associates to whom he is personally known.

B 4 References shall not be required of candidates for Honorary Membership.

B 5 The references for each candidate for admission to the Society shall be requested to make a confidential communication to the Membership Committee, setting forth in detail such information, personally known to the referee, as shall enable the Council to arrive at a proper estimate of eligibility of the candidate for admission to the Society.

ELECTION OF MEMBERS

B 6 The Secretary shall mail at least thirty days in advance of each annual or semi-annual meeting, to each member entitled to vote, a ballot stating the names and the respective grades of the candidates for membership in the Society which have been approved by the Council, and the time of the closure of voting. The voter shall prepare his ballot by crossing out the name of any candidate rejected by him, and shall enclose said ballot in an envelope and seal the same; he shall then enclose said envelope in a second envelope marked "Ballot for Members," and seal the same, and he shall then write his own name thereon for identification. The ballot thus prepared and enclosed shall be mailed or delivered unopened to the Tellers of Election. The Secretary shall certify to the competency and the signature of all voters. A ballot without the autographic endorsement of the voter written on the outer envelope is defective, and shall be rejected by the Tellers of Election.

B 7 The voting for the election of members shall close at twelve o'clock noon, five days in advance of the day on which the annual or semi-annual meeting begins. The Tellers of Election shall first open and destroy the outer envelopes, and shall then open the inner envelopes and canvass the ballots, and certify the result to the President or Presiding Officer of the Society, at the first session of the current meeting of the Society. The Tellers shall not receive any ballot after the stated time for the closure of the voting.

B 8 The names of those persons elected to membership, with their respective grades, shall be embodied in a written report, signed by the Tellers, and presented to the next meeting of the Society. The President shall then declare them duly elected to membership in the Society. The Tellers may, through the Secretary, in advance of any meeting, advise each candidate of the result of the canvass of the votes in his case. The names of applicants who are not elected shall neither be announced nor recorded in the Transactions.

B 9 The endorsers of an applicant who has not been elected, may, with his consent, present to the Council a written request for a re-submission of his name to ballot. The Council may, in its discretion, by a three-fourths vote of the members present, order the name of the applicant placed on the next ballot for members.

B 10 Election to Honorary Membership shall be by letter-ballot of the Council. A notice of such proposed election shall be mailed by the Secretary to each member of the Council at least 60 days in advance of the date set for the closure of such election.

B 11 Each person elected to membership, except an Honorary Member, must subscribe to the Constitution, By-Laws, and Rules of the Society, and pay the initiation fee before he can receive a certificate of membership in the Society.

ELECTION OF OFFICERS

B 12 The Secretary shall mail on or before the last Thursday in October of each year to each member entitled to vote a ballot stating the names of the candidates for the several offices falling vacant, and the time of the closure of the voting. The voter shall prepare his ballot by crossing out the name of any candidate or candidates rejected by him, and may write in the name of any eligible member of the Society. The voter shall enclose said ballot in an envelope and seal the same. He shall then enclose the sealed envelope in a second envelope marked "Ballot for Officers," seal the same, and shall then write his name thereon for identification. The ballot thus prepared and enclosed shall be mailed or delivered unopened to the Tellers of Election. The Secretary shall certify to the competency and signature of all voters. A ballot without the autographic endorsement of the voter written on the outside envelope is defective, and shall be rejected by the Tellers of Election. A ballot which contains more names than there are offices to be filled is thereby defective, and shall be rejected by the Tellers.

B 13 The voting for the election of officers shall close at twelve o'clock noon on the Thursday preceding the first Tuesday of December in each year. The Tellers shall not receive any ballot after the stated time for the closure of the voting. The Tellers of Election shall first open and destroy the outer envelopes and shall then open the inner ones, canvass the ballots and certify the result to the President or Presiding Officer at the first session of the current meeting of the Society. The Presiding Officer shall then announce the candidates having the greatest number of votes for their respective offices, and declare them elected for the ensuing year.

B 14 The names of the candidates proposed by the Nominating Committee or Committees, and the respective offices for which they are candidates, shall be printed in separate lists on the same ballot sheet, each list of candidates to be printed under the names of the members of the particular committee which proposed it.

B 15 In case of a tie in the vote for any officer, the President

or, in his absence, the Presiding Officer, shall cast the deciding vote.

FEES AND DUES

B 16 The initiation fees and annual dues of the first year shall be due and payable on notice of election to membership, and upon that payment the member will be entitled to the Transactions for the year. Thereafter the annual dues shall be due and payable on the first day of October in each year for the ensuing twelve months.

B 17 A member in arrears for dues for one year shall not be entitled to vote. Should the right to vote be questioned, the books of the Society shall be conclusive evidence. The resignation of a member indebted to the Society shall not be accepted.

B 18 The Secretary shall present to the Council the name of any Member, Associate, or Junior in arrears for more than one year, and such member shall not receive the Transactions until such arrears are fully paid. A person dropped from the rolls for non-payment of dues may, at the discretion of the Council, be restored to the privileges of membership, upon payment of all arrears.

FINANCIAL ADMINISTRATION

B 19 The Council at its first meeting in each fiscal year, shall consider the recommendations of the Finance Committee concerning the expenditure necessary for the work of the Society during that year. The apportioning of the work of the Society among the various Standing and other Committees shall be on a basis approved by the Council and in harmony with the Constitution and By-Laws. The appropriations approved by the Council, or so much thereof as may be required for the work of the Society shall be expended by the Secretary acting as Business Manager, under the direction of the various Committees of the Society, and all bills against the Society for such expenditure shall be certified by the Secretary and shall then be sent to the Finance Committee for audit. Money shall not be paid out by any officer or employee of the Society except upon vouchers duly audited by the Finance Committee.

THE JOURNAL

B 20 The Council shall institute a monthly publication to be called "The Journal," which shall be under the management of the Secretary, who shall act under the general supervision of the Publication Committee, subject to approval by the Council as to the policy thereof and the expenditures therefor. The annual subscription price of The Journal to each member is five dollars, and is included in the annual dues of such member.

COMMITTEES

B 21 The President within one month after the Annual Meeting shall fill all vacancies in the Standing Committees by appointment from the membership of the Society.

Each of the Standing and the Annual Committees, shall, at their first meeting after the Annual Meeting, elect a Chairman to serve for one year. The President shall appoint the Chairman of each Professional Committee. A member of a Standing Committee, whose term of office has expired, shall continue to serve until his successor shall have been appointed.

FINANCE COMMITTEE

B 22 The Finance Committee shall consist of five Members or Associates. The term of office of one member of the Committee

shall expire at the end of each Annual Meeting. This Committee shall, under the direction of the Council, have a supervision of the financial affairs of the Society, including the books of account. The Committee may cause the accounts of the Society to be audited and approved annually by a chartered or other competent public accountant. The Committee shall hold monthly meetings for the audit of bills and such other business as shall come before it and shall deliver to the Secretary for presentation to the Council at the end of each fiscal year, a report of the financial condition of the Society for the past year, and also shall present therewith a detailed estimate for the probable income and expenditure of the Society for the following twelve months. It shall make recommendations to the Council as to investments, and, when called upon by the Council, advise upon financial questions.

COMMITTEE ON MEETINGS

B 23 The Committee on Meetings shall consist of five persons who may be members of any grade. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of the Committee to procure professional papers, to pass upon their suitability for presentation, and to suggest topical subjects for discussion at the meetings. The Committee may refer any paper presented to the Society to a person or persons, especially qualified by theoretical knowledge or practical experience, for their suggestions or opinions as to the suitability of the paper for presentation. Papers from non-members shall not be accepted except by unanimous vote of the Committee.

The Committee shall arrange the program of each meeting of the Society, and shall have general charge of the entertainments to be provided for the members and guests at each meeting. It shall prohibit the distribution or exhibition at the headquarters or at the meeting places of the Society of all advertising circulars, pamphlets or samples of commercial apparatus or machinery. At the end of each fiscal year, the Committee shall deliver to the Secretary for presentation to the Council, a detailed report of its work.

PUBLICATION COMMITTEE

B 24 The Publication Committee shall consist of five Members or Associates. The term of office of one member shall expire at the end of each Annual Meeting. The Committee shall review all papers and discussions which have been presented at the meetings, and shall decide what papers or discussions, or parts of the same, shall be printed in the Transactions of the Society. The Committee will be expected to publish all such data as will be of assistance to engineers or investigators in their work. At the end of each fiscal year the Committee shall deliver to the Secretary for presentation to the Council, a detailed report of its work.

MEMBERSHIP COMMITTEE

B 25 The Membership Committee shall consist of five Members or Associates. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of this Committee:

To meet monthly to receive and scrutinize all applications for membership to the Society:

To send to each voting member the name, qualifications, engineering experience, and references, of each applicant,

together with extracts from the Constitution and By-Laws relating to membership:

To seek further information as to the qualifications of an applicant, whose evidence of eligibility is not clear to the Committee:

To report to each session of the Council the names of all applicants under consideration, together with the action of the Committee on each.

The Committee shall at once destroy all correspondence in relation to each applicant when his name has been placed on the ballot by order of the Council, or upon the withdrawal of the application.

LIBRARY COMMITTEE

B 26 The Library Committee shall consist of five persons who shall be Members, Associates or Juniors. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of the Library Committee to cooperate with similar committees of the American Institute of Electrical Engineers and the American Institute of Mining Engineers in the care and development of a library. At the end of each fiscal year the Committee shall deliver to the Secretary a detailed report of its work.

HOUSE COMMITTEE

B 27 The House Committee shall consist of five persons who shall be Members, Associates, or Juniors. The term of office of one Member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of the House Committee to have the care, management and maintenance of the rooms of the Society and furnishings, the historical relics, the paintings, and objects of art, and to recommend to the Council suitable regulations for their care and use. At the end of each fiscal year the Committee shall deliver to the Secretary a detailed report of its work.

EXECUTIVE COMMITTEE

B 28 The Council shall appoint from its members an Executive Committee to act for the Council during the interval between its sessions. The Committee shall make a report of its acts to each session of the Council for approval. The Secretary may take part in the deliberations of the Executive Committee, but shall not have a vote therein.

NOMINATING COMMITTEES

B 29 A Nominating Committee of five Members, not members of the Council, shall be appointed by the President within three months after he assumes office. It shall be the duty of this Committee to send to the Secretary, on or before October 1st, the names of consenting nominees for the elective offices next falling vacant under the Constitution. Upon the request of any Member or Associate, the Secretary shall furnish to the applicant the names of such nominees.

B 30 A special Nominating Committee, if organized, shall, on or before October 20th, present to the Secretary the names of the candidates nominated by it for the elective offices next falling vacant under the Constitution, together with the written consent of each.

JOHN FRITZ MEDAL COMMITTEE

B 31 The John Fritz Medal Committee shall consist of four persons of the grade of Member, to be appointed by the Council. The

term of office of one member of this Committee shall expire at the end of each annual meeting. The duty of this Committee shall be to represent the Society in the Board of Trustees of the John Fritz Medal Fund Corporation.

TRUSTEE UNITED ENGINEERING SOCIETY

B 32 The Council shall, previous to January 1st of each year, elect a trustee to serve for a term of three years on the Board of Trustees of the United Engineering Society. No trustee shall be eligible for more than two terms consecutively.

REPRESENTATIVE DELEGATES

B 33 The Council may, in its discretion, appoint a member or members of the Society, or other person or persons, to represent it at meetings of Societies of kindred aim or at public functions. Such delegates shall be designated as "Honorary Vice-Presidents," and their duties shall terminate with the occasion for which they were appointed.

TELLERS

B 34 The President shall, on or before the last Thursday in October of each year, appoint three Tellers of Election of Officers, whose duty shall be to canvass the votes cast, and certify the same to the President or Presiding Officer at the first session of the Annual Meeting. Their term of office shall expire when their report of the canvass has been presented and accepted.

B 35 The President within one month after assuming office shall appoint three Tellers of Election of members to serve for one year, whose duties shall be to canvass the votes cast for members during the year, and to certify the same to the President. They shall notify candidates through the Secretary of the results of such election.

B 36 Ballots for an amendment to the Constitution shall be canvassed and announced in the same manner as the ballots for officers of the Society. The President shall appoint three Tellers to canvass any letter ballots which shall be ordered by the Council or by the Society and to certify the same to the President, or the Presiding Officer.

MEETINGS

B 37 The meetings of the Society shall continue from day to day as the meeting may decide. The business session of the Annual Meeting shall be held on Wednesday following the first Tuesday of December. The professional sessions for the reading of papers shall be held at such times and places as the meeting may appoint. Notices of all meetings of the Society shall be mailed by the Secretary to members of all grades not less than 30 days before the date of such meeting.

SECRETARY

B 38 The Secretary of the Society shall be the Secretary to the Council, and also to each of the Standing Committees.

The Secretary shall, under the supervision of the Finance Committee, have charge of the Books of Account of the Society.

He shall make and collect all bills against members or others.

He shall have charge of all bills against the Society, shall keep an account of the same, and shall present them in proper form to the Finance Committee for audit.

All funds received by any person for the Society, shall be delivered to the Secretary. He shall immediately enter them in the

Books of Account, and shall immediately deposit such funds as he receives, to the credit of the Society, in a Bank to be designated by the Council.

TREASURER

B 39 The Treasurer shall make payments only on the audit of the Finance Committee, or upon the direction of the Council, by resolution of that body. He shall furnish a bond for the faithful performance of his duties to such amount as the Council may require, such bond to be procured from an incorporated Guarantee Company, at the expense of the Society.

TITLES, EMBLEMS, CERTIFICATE

B 40 Each Member, Associate, and Junior shall, subject to such rules as the Council may establish, be entitled, on request, to a certificate of membership, signed by the President and Secretary of the Society. Every such certificate shall remain the property of the Society, and shall be returned to it on demand of the Council.

B 41 Each proxy authorizing a person to vote for an absent member, shall be signed by such absent member, with an attesting witness, and be submitted to the Secretary for verification of the member's right to vote at the meeting at which the right is to be exercised.

B 42 The emblem of each grade of membership approved by the Council shall be worn by those only who belong to that grade. The official stationery shall be used only by Officers and Committees of the Society.

B 43 The abbreviation of the titles of the various grades of membership approved by the Society are as follows:

For Honorary Members....	Hon.Mem.Am.Soc.M.E.
For Members.....	Mem.Am.Soc.M.E.
For Associates.....	Assoc.Am.Soc.M.E.
For Juniors.....	Jun.Am.Soc.M.E.

B 44 Standards for the conduct of the business affairs of the Society, of its professional or business meetings and of its Committees and their activities may be established, amended or annulled by a two-thirds vote of the members of the Council present at a meeting provided that a written notice of the proposed addition or change may have been given at a previous meeting of the Council and provided further that the Secretary shall have sent to each member of the Executive Committee (acting as a Committee on Standards) a draft of the proposed addition or change at least two weeks prior to the meeting at which they are to be voted on.

B 45 Directions for the conduct of the business affairs of the Society may be established by the Secretary and the work covered shall be carried out as provided by these Directions. These Directions may be added to, amended or annulled by the Secretary, but it shall be his duty to send to each member of the Executive Committee (acting as a Committee on Standards) a draft of the change before it is put into effect.

RESEARCH COMMITTEE

B 46 The Research Committee shall consist of five Members, Associates or Juniors. The term of office of one member of the committee shall expire at the end of each Annual Meeting.

B 47 This committee shall have supervision of such research or investigations as may be directed or approved by the Council; shall

correspond and collaborate with committees of kindred technical, scientific or other societies; shall keep in touch with researches conducted in other countries, which are of value to the engineer, and shall report the same quarterly to the Council.

B 48 The Committee will be expected to maintain a system of announcement of results of research, and the trend of investigations, in any field, which will be of value to the engineering profession.

B 49 Gifts or bequests to the Society for the conduct of research or investigation shall be expended under the direction of the Council and shall be kept separate from other Society funds.

RULES

R 1 The Secretary's office shall be open on business days from 9 a. m. to 5.30 p. m. During the Annual Meeting, the office shall be open from 9 a. m. to 10 p. m. A register shall be kept for each regular meeting, to record the attendance of members and guests.

R 2 The Secretary shall provide a badge or pin for each member or guest attending the annual and semi-annual meetings; the badge of each Member, Associate and Junior to bear his name.

R 3 The Secretary shall at each regular meeting of the Society, distribute at the headquarters a printed list of the names registered at the meeting.

R 4 Each paper which has been accepted by the Committee on Meetings for presentation at any meeting of the Society shall be published in The Journal at least seven days in advance of that meeting and in the form in which it has been accepted by that committee, and that paper shall also be distributed in pamphlet form at that meeting. A paper received too late for such distribution shall only be accepted for presentation at that meeting by unanimous consent of the Committee on Meetings, and shall if so accepted be published in a subsequent issue of The Journal. A member may by letter signify his intention to discuss any of the papers, and unless otherwise directed by the Presiding Officer, priority in debate shall be given in the order of the receipt by the Secretary of such notification.

R 5 At professional sessions, each paper shall be read by abstract only, ten minutes being allowed to the author for the presentation unless otherwise ordered by the meeting.

R 6 A member who has given notice of his intention to discuss a paper, and shall have reduced his discussion to writing, shall be entitled to ten minutes for its presentation.

R 7 Each speaker shall be limited to five minutes in the oral discussion of a paper, unless the time should be extended by unanimous consent. A member who has once had the floor cannot claim it again until all the others have been heard who desire to speak on that paper. Authors may have five minutes to close the discussion on the paper.

R 8 Members unable to attend the meeting may send a discussion of any paper in writing, to be presented by the Secretary.

R 9 The Committee on Meetings shall deliver to the Secretary such papers as they recommend for presentation to the professional meetings of the Society.

R 10 The Secretary shall have sole possession of papers and illustrations between the time of their approval by the Committee on Meetings and their presentation to the professional session of the Society.

R 11 After the presentation and discussion of a paper, a copy of both shall be sent to the author, and, so far as possible, a copy of the reported discussion shall be sent to each member who presented it, with the request that he correct errors or omissions, and return the same promptly to the Secretary.

R 12 Members may order reprints of papers at a price sufficient to cover the cost to the Society, provided that said copies are not for sale.

R 13 The features of the program outside of the professional and business sessions to be provided for the members and guests at any meeting of this Society in any city shall be in charge of a Local Committee, subject, however, to the general approval of the Committee on Meetings.

R 14 A member may invite a non-member to the professional sessions of the meeting, but the guest shall not take part in the

proceedings without an invitation from the Presiding Officer. Invitations to guests of members for the entertainments provided for the Society shall be in the discretion of the Local Committee.

R 15 The Library of the Society shall be conducted as a free public reference library of engineering and the allied arts and sciences. It will be open on all week days between the hours of 9 a. m. and 9 o'clock p. m., except New Year's, Independence, Thanksgiving and Christmas days. The rooms of the Society shall be open for the use and the convenience of members during the usual business hours.

R 16 Juniors who were elected to membership in the Society six years or more previous to the adoption of this Constitution shall pay the same dues as an Associate, beginning with the fiscal year which opens after such adoption. Juniors, who have been elected less than six years before that date, shall pay the dues of an Associate on the expiration of six years after their election.

R 17 Ballots for amendments to the Constitution shall be canvassed and announced in the same manner as the ballots for officers for the Society.

RULES REGARDING PROFESSIONAL SECTIONS

R 18 A professional section of the Society shall consist of Honorary Members, Members, Associates, and Juniors of The American Society of Mechanical Engineers and of other persons to be designated Affiliates as hereinafter described.

R 19 A professional section of The American Society of Mechanical Engineers may, with the approval of the Council, be organized for the consideration of any engineering, scientific, or professional topic, provided that a number satisfactory to the Council, of members of The American Society of Mechanical Engineers, unite in making written request for such an organization. Such section shall be designated as — Section of The American Society of Mechanical Engineers—the blank being filled by the topic specialized.

R 20 The provisions of the Constitution, By-Laws, and Rules of The American Society of Mechanical Engineers, and the precedents of the Society with respect to professional sessions for the discussions of papers shall cover the procedure of the professional sections, except that no meeting of a section shall be considered a meeting of the Society as a whole.

R 21 For the convenient conduct of its professional affairs the section shall organize an Executive Committee of five members of the Society, under the general direction of Council. Such officers as the section shall require, must be selected from the membership of the Society. Other committees of the section shall be appointed by its Executive Committee.

R 22 The Executive Committee of the section, subject to the approval and direction of the Secretary of the Society, shall designate a Secretary of the section, whose duties shall be those usually attaching to the Secretary of a professional session and who shall also see that the discussions of papers are satisfactorily reported and transmitted to the Secretary of the Society.

R 23 Expenditures for the purposes of a section chargeable to the Society shall be authorized by the Secretary of the Society before they are incurred, and must be provided for in the estimate and budget of the Committee on Meetings. No liability otherwise incurred shall be binding on the Society. Any expenditure not so provided shall be met by the section itself.

R 24 Engineers and others not members of the American Society, but desiring to participate in meetings of the section, may enroll themselves as affiliates as heretofore provided with the approval of

the Executive Committee of the section. Such affiliates shall have the privilege of presenting papers and taking part in the discussions. They shall pay \$5 per annum which shall be due and payable, in advance, on October 1 of each year of their enrollment, and shall thereby be entitled to receive the Proceedings of the Society as they are issued month by month, for a period covered by their dues.

R 25 The Council of The American Society of Mechanical Engineers, may at 60 days notice, suspend or disband any section.

STUDENT BRANCHES

The following rules with respect to Student Branches, among students of engineering and technical schools, have been added to the rules for the guidance of the organization of branches.

R 26 The name of this Association shall be "_____ Affiliated with the The American Society of Mechanical Engineers;" or, the _____ Student Branch of The American Society of Mechanical Engineers.

R 27 The basis of such an affiliation shall be the independence, autonomy and self-control of each affiliated body under its own by-laws; subject to such limitation as may be set by the Council.

R 28 Each affiliated society shall furnish to the Secretary of The American Society of Mechanical Engineers, satisfactory reports of discussions and business transacted at its meetings; also copies of all papers and addresses presented.

R 29 The American Society of Mechanical Engineers will furnish monthly issues of The Journal to all members of affiliated organizations who are not members of The American Society of Mechanical Engineers upon the payment by each of two dollars per year. The American Society of Mechanical Engineers will furnish gratis to each affiliated body, extra copies of advance papers for use at its meetings, the number furnished to be agreed upon at the discretion of the Secretary.

R 30 Upon recommendation of each affiliated society the President of The American Society of Mechanical Engineers, after conference with the Secretary of the Society, shall appoint a member of the latter body to be Honorary Chairman of each affiliated society, for each year. Such Honorary Chairman shall be, ex-officio, a member of the Governing Committee of said affiliated society.

R 31 The Presiding Officer chosen by each affiliated society shall be styled Chairman of the _____ Affiliated with The American Society of Mechanical Engineers; or, Chairman of the _____ Student Branch of The American Society of Mechanical Engineers.

R 32 The affairs of the affiliated society shall be managed by a Governing Committee of at least three members, besides the Honorary Chairman.

R 33 The names which designate any committees appointed by the affiliated societies shall be different from the names of corresponding committees of The American Society of Mechanical Engineers.

R 34 The affiliated society shall have the privilege of having printing done by The American Society of Mechanical Engineers at cost. Where the affiliated society desires to publish any papers in local journals or elsewhere, it shall first ascertain that The American Society of Mechanical Engineers does not itself desire to publish such paper and the privilege of priority in publication shall always be the right of The American Society of Mechanical Engineers. The affiliated society shall claim no exclusive copyright upon such papers.

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DEPOSITORIES FOR TRANSACTIONS

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 American Institute, New York, N. Y.
 Armour Institute of Technology, Chicago, Ill.
 Atlantic Works, East Boston, Mass.
 Boston Public Library, Boston, Mass.
 Brooklyn Polytechnic Institute, Brooklyn, N. Y.
 Brooklyn Public Library, Brooklyn, N. Y.
 Brown University, Providence, R. I.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Cambria Library Association, Johnstown, Pa.
 Carnegie Free Library, Allegheny, Pa.
 Chalmers Technical School, Gottenberg, Sweden.
 Chicago Public Library, Chicago, Ill.
 Cincinnati Public Library, Cincinnati, O.
 City Guild Central Technical College, London, S. W., England.
 Civil Engineers' Society of St. Paul, St. Paul, Minn.
 Clarkson, Thomas S., Memorial School of Technology, Potsdam, N. Y.
 Clemson Agricultural College, Calhoun, S. C.
 Cleveland Public Library, Cleveland, O.
 College of Hawaii, Honolulu, H. I.
 Colorado School of Mines, Golden, Colo.
 Columbia University, New York, N. Y.
 Commonwealth Edison Library, Chicago.
 Cornell University Library, Ithaca, N. Y.
 Dayton Public Library and Museum, Dayton, O.
 Detroit Public Library, Detroit, Mich.
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 Edison Electric Illuminating Co., Boston, Mass.
 Free Public Library, St. Joseph, Mo.
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 Goulds Mfg. Co., Seneca Falls, N. Y.
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 Hartford Public Library, Hartford, Conn.
 Harvard University Library, Cambridge, Mass.
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 John Crerar Library, Chicago, Ill.
 Lafayette College, Van Wickle Memorial Library, Easton, Pa.
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 Lehrstuhl für Maschinenbau, Darmstadt, Germany.
 Leland Stanford, Jr., University, Palo Alto, Cal.
 Lewis Institute, Chicago, Ill.
 Library Association, Portland, Ore.
 Library of Congress, Washington, D. C.
 Los Angeles Public Library, Los Angeles, Cal.
 Lowell City Library, Lowell, Mass.
 Lowell Textile School, Lowell, Mass.
 McGill University, Montreal, Canada.
 Massachusetts Institute of Technology, Boston, Mass.
 Mechanics' Free Library, Altoona, Pa.
 Mechanics-Mercantile Library, San Francisco, Cal.
 Michigan Agricultural College, Lansing, Mich.
 Michigan College of Mines, Houghton, Mich.
 Milwaukee Public Library, Milwaukee, Wis.
 Minneapolis Public Library, Minneapolis, Minn.
 Montana State College of Agricultural and Mechanical Arts, Bozeman, Mont.
 Municipal Technical School, Manchester, England.
 New Hampshire College of Agriculture and Mechanical Arts, Durham, N. H.

New Mexico College Agricultural and Mechanical Arts, Mesilla Park, N. M.
New York Public Library, New York, N. Y.
New York State Library, Albany, N. Y.
Northampton Institute, London, E. C., England.
Northwestern University Library, Evanston, Ill.
Ohio State University, Columbus, O.
Omaha Public Library, Omaha, Neb.
Oregon Agricultural College, Corvallis, Ore.
Patent Office Library, London, England.
Pennsylvania State College, State College, Pa.
Plainfield Public Library, Plainfield, N. J.
Pratt Institute, Brooklyn, N. Y.
Princeton University, Princeton, N. J.
Purdue University, Lafayette, Ind.
Rensselaer Polytechnic Institute, Troy, N. Y.
Rose Polytechnic Institute, Terre Haute, Ind.
Rutgers College Library, New Brunswick, N. J.
St. Louis Mercantile Library Association, St. Louis, Mo.
School of Mining, Kingston, Ont., Canada.
Scranton Engineers' Club, Scranton, Pa.
State University of North Dakota, University, N. D.
Stevens Institute of Technology, Hoboken, N. J.
Swarthmore College, Swarthmore, Pa.
Syracuse Public Library, Syracuse, N. Y.
Toledo Public Library, Toledo, O.
Tufts College, Tufts College P. O., Mass.
Tulane University Library, New Orleans, La.
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University of Colorado, Boulder, Colo.
University of Edinburgh, Edinburgh, Scotland.
University of Illinois, Urbana, Ill.
University of Iowa, Iowa City, Ia.
University of Kansas, Lawrence, Kan.
University of Leeds, Leeds, England.
University of Maine, Orono, Me.
University of Michigan, Ann Arbor, Mich.
University of Minnesota, Minneapolis, Minn.
University of Missouri, Columbia, Mo.
University of Nebraska, Lincoln, Neb.
University of Pennsylvania, Philadelphia, Pa.
University of Tennessee, Knoxville, Tenn.
University of Texas, Austin, Tex.
University of Toronto, Toronto, Ontario, Canada.
University of Utah, Salt Lake City, Utah.
University of Vermont, Burlington, Vt.
University of Washington, Seattle, Wash.
University of Wisconsin, Madison, Wis.
University of Wyoming, Laramie, Wy.
Vanderbilt University, Nashville, Tenn.
Verein deutscher Ingenieure, Berlin, Germany.
Washington University, St. Louis, Mo.
Western Gas Construction Co., Fort Wayne, Ind.
Westinghouse Machine Co., Pittsburg, Pa.
West Virginia University, Morgantown, W. Va.
Wilmington Institute Free Library, Wilmington, Del.
Worcester Free Library, Worcester, Mass.
Worcester Polytechnic Institute, Worcester, Mass.
Yale University, Sheffield Scientific School, New Haven, Conn.

DECEASED HONORARY MEMBERS

Name	Date of Election	Died
Horatio Allen	1880	1889
Daniel K. Clark.....	November 1882	1896
Rudolph Clausius	November 1882	1888
Peter Cooper	November 1882	1883
O. Hallauer.....	November 1882	1883
G. A. Hirn.....	November 1882	1890
Edward J. Reed.....	November 1882	1906
Franz Reuleaux	November 1882	1905
Henri Schneider	November 1882	1898
C. William Siemens.....	November 1882	1883
Henri Tresca	November 1882	1885
Johann Bauschinger	November 1884	1893
Frederick Bramwell	November 1884	1904
F. Grashof.....	November 1884	1893
Gustav Herrmann.....	November 1884	1907
Benjamin Baker.....	May 1886	1907
James Dredge.....	May 1886	1906
Francis A. Walker.....	May 1886	1897
John Coode	November 1889	1892
Joseph Hirsch	November 1889	1901
Henry Bessemer	June 1891	1898
Gustave Canet.....	December 1900	1908
Chas. H. Haswell.....	April 1905	1907

PAST OFFICERS OF THE SOCIETY

PRESIDENTS

R. H. THURSTON.....	1880-1882.....	Died October 25, 1903
E. D. LEAVITT.....	1883.....	Cambridge, Mass.
JOHN E. SWEET.....	1884.....	Syracuse, N. Y.
J. F. HOLLOWAY.....	1885.....	Died September 1, 1896
COLEMAN SELLERS.....	1886.....	Died December 28, 1907
GEORGE H. BABCOCK.....	1887.....	Died December 16, 1893
HORACE SEE.....	1888.....	Died December 14, 1909
HENRY R. TOWNE.....	1889.....	New York, N. Y.
OBERLIN SMITH.....	1890.....	Bridgeton, N. J.
ROBERT W. HUNT.....	1891.....	Chicago, Ill.
CHARLES H. LORING.....	1892.....	Died February 5, 1907
ECKLEY B. COXE.....	1892-1894.....	Died May 13, 1895
E. F. C. DAVIS.....	1895.....	Died August 6, 1895
CHARLES E. BILLINGS.....	1895.....	Hartford, Conn.
JOHN FRITZ.....	1896.....	Bethlehem, Pa.
WORCESTER R. WARNER.....	1897.....	Cleveland, O.
CHARLES WALLACE HUNT.....	1898.....	New York, N. Y.
GEORGE W. MELVILLE.....	1899.....	Philadelphia, Pa.
CHARLES H. MORGAN.....	1900.....	Worcester, Mass.
S. T. WELLMAN.....	1901.....	Cleveland, O.
EDWIN REYNOLDS.....	1902.....	Died February 19, 1909
JAMES M. DODGE.....	1903.....	Philadelphia, Pa.
AMBROSE SWASEY.....	1904.....	Cleveland, O.
JOHN R. FREEMAN.....	1905.....	Providence, R. I.
F. W. TAYLOR.....	1906.....	Philadelphia, Pa.
F. R. HUTTON.....	1907.....	New York, N. Y.
M. L. HOLMAN.....	1908.....	St. Louis, Mo.
JESSE M. SMITH.....	1909.....	New York, N. Y.

[According to the Constitution, Article C 27, the five Past Presidents who last held the office shall be members of the Council, with all the rights, privileges and duties of the other members of the Council.]

VICE-PRESIDENTS

HENRY WORTHINGTON.....	April-December, 1880
COLEMAN SELLERS.....	April, 1880—November, 1881
ECKLEY B. COXE.....	April, 1880—November, 1881
QUINCY A. GILLMORE.....	April, 1880—December, 1880
WM. H. SHOCK.....	April, 1880—November, 1882
ALEXANDER L. HOLLEY.....	April, 1880—January, 1882
FRANCIS A. PRATT.....	December, 1880—November, 1881
THEO. N. ELY.....	1881—November, 1882
WASHINGTON JONES.....	1881—November, 1882
WM. P. TROWBRIDGE.....	1881—November, 1883
E. D. LEAVITT.....	1881—December, 1882
CHAS. E. EMERY.....	1881-1883

Vice-Presidents (Continued)

S. B. WHITING.....	1882-1883
JOHN FRITZ.....	1882-1884
HENRY MORTON.....	1882-1884
WM. METCALF.....	1882-1884
A. B. COUCH.....	1883-1885
W. R. ECKART.....	1883-1885
J. V. MERRICK.....	1883-1885
CHAS. W. COPELAND.....	1884-1886
COLEMAN SELLERS.....	1884-1885
OLIN LANDRETH.....	1885-1886
HENRY R. TOWNE.....	1885-1886
ALLAN STIRLING.....	1885-1887
HORACE SEE.....	1885-1887
CHAS. H. LORING.....	1885-1887
JOS. MORGAN, JR.....	1886-1888
CHAS. T. PORTER.....	1886-1888
HORACE S. SMITH.....	1886-1888
W. S. G. BAKER.....	1887-1889
H. G. MORRIS.....	1887-1889
C. J. H. WOODBURY.....	1887-1889
THOS. J. BORDEN.....	1888-1890
WILLIAM KENT.....	1888-1890
CHARLES B. RICHARDS.....	1888-1890
DE VOLSON WOOD.....	1889-1891
JOEL SHARP.....	1889-1891
GEO. W. WEEKS.....	1889-1891
STEPHEN W. BALDWIN.....	1890-1892
ALEX. GORDON.....	1890-1892
JNO. F. PARKHURST.....	1890-1892
GEORGE I. ALDEN.....	1891-1893
E. F. C. DAVIS.....	1891-1893
IRVING M. SCOTT.....	1891-1893
CHARLES WALLACE HUNT.....	1892-1894
EDWIN REYNOLDS.....	1892-1894
THOS. R. PICKERING.....	1892-1894
PERCIVAL ROBERTS, JR.....	1893-1895
H. J. SMALL.....	1893-1895
CHARLES E. BILLINGS.....	1893-1895
FRANK H. BALL.....	1894-1896
M. L. HOLMAN.....	1894-1896
JESSE M. SMITH.....	1894-1896
FRANCIS W. DEAN.....	1895-1897
CHARLES H. MANNING.....	1895-1897
GEORGE W. MELVILLE.....	1895-1897
EDWIN S. CRAMP.....	1896-1898
W. F. DUFEE.....	1896-1898
S. T. WELLMAN.....	1896-1898
CHARLES M. JARVIS.....	1897-1899
WALTER S. RUSSELL.....	1897-1899
JOHN C. KAUFER.....	1897-1899

Vice-Presidents (Continued)

E. D. MEIER.....	1898-1900
GEORGE R. STETSON.....	1898-1900
B. H. WARREN.....	1898-1900
JESSE M. SMITH.....	1899-1901
STEVENSON TAYLOR.....	1899-1901
DAVID TOWNSEND.....	1899-1901
JAMES M. DODGE.....	1900-1902
AMBROSE SWASEY.....	1900-1902
ARTHUR M. WAITT.....	1900-1902
M. E. COOLEY.....	1901-1903
WILFRED LEWIS.....	1901-1903
M. P. HIGGINS.....	1901-1903
JAMES CHRISTIE.....	1902-1904
F. H. DANIELS.....	1902-1904
JOHN R. FREEMAN.....	1902-1904
D. S. JACOBUS.....	1903-1905
WILLIAM J. KEEP.....	1903-1905
M. L. HOLMAN.....	1903-1905
S. M. VAUCLAIN.....	1904-1906
H. H. WESTINGHOUSE.....	1904-1906
FRED. W. TAYLOR.....	1904-1905
GEO. H. BARRUS.....	1905-1906
WALTER M. MCFARLAND.....	1905-1907
ROBT. C. MCKINNEY.....	1905-1907
EDWARD N. TRUMP.....	1905-1907
PHILETUS W. GATES.....	1906-1908
JOHN W. LIEB, JR.....	1906-1908
ALEX DOW.....	1906-1908
L. P. BRECKENRIDGE.....	1907-1909
FRED J. MILLER.....	1907-1909
ARTHUR WEST.....	1907-1909

MANAGERS

WM. P. TROWBRIDGE.....	April, 1880—November, 1881
THEO. N. ELY.....	April, 1880—November, 1881
J. C. HOADLEY.....	April, 1880—November, 1881
WASHINGTON JONES.....	April, 1880—November, 1881
WM. B. COGSWELL.....	April, 1880—November, 1882
CHAS. B. RICHARDS.....	April, 1880—November, 1882
S. B. WHITING.....	April, 1880—November, 1882
E. D. LEAVITT, JR.....	April, 1880—November, 1881
J. F. HOLLOWAY.....	November, 1880—November, 1883
GEO. W. FISHER.....	November, 1880—November, 1883
ALLAN STIRLING.....	November, 1881—November, 1884
GEO. H. BABCOCK.....	1881—November, 1884
S. W. ROBINSON.....	1881—November, 1884
JOHN E. SWEET.....	1882-1883
ROBT. W. HUNT.....	1882-1885

Managers (Continued)

CHAS. T. PORTER.....	1882-1885
C. J. H. WOODBURY.....	1882-1885
W. F. DUFFEE.....	1883-1886
OBERLIN SMITH.....	1883-1886
C. C. WORTHINGTON.....	1883-1886
WM. LEE CHURCH.....	1884-1887
WM. HEWITT.....	1884-1887
CHAS. H. MORGAN.....	1884-1887
HAMILTON A. HILL.....	1885-1888
WILLIAM KENT.....	1885-1888
SAML. T. WELLMAN.....	1885-1888
JOHN T. HAWKINS.....	1886-1889
FREDK. G. COGGIN.....	1886-1889
THOS. R. MORGAN, SR.....	1886-1889
STEPHEN W. BALDWIN.....	1887-1890
FREDK. GRINNELL.....	1887-1890
MORRIS SELLERS.....	1887-1890
FRANK H. BALL.....	1888-1891
GEO. M. BOND.....	1888-1891
WM. FORSYTH.....	1888-1891
JAS. E. DENTON.....	1889-1892
CARLETON W. NASON.....	1889-1892
H. H. WESTINGHOUSE.....	1889-1892
ANDREW FLETCHER.....	1890-1893
WORCESTER R. WARNER.....	1890-1893
COLEMAN SELLERS, JR.....	1890-1893
JAS. M. DODGE.....	1891-1894
ROBT. FORSYTH.....	1891-1894
JESSE M. SMITH.....	1891-1894
JOHN THOMSON.....	1892-1895
CHARLES W. PUSEY.....	1892-1895
CHARLES H. MANNING.....	1892-1895
JOHN B. HERRESHOFF.....	1893-1896
LEBBEUS B. MILLER.....	1893-1896
WALTER S. RUSSEL.....	1893-1896
CHARLES A. BAUER.....	1894-1897
ARTHUR C. WALWORTH.....	1894-1897
JOHN C. KAER.....	1894-1897
GEO. W. DICKIE.....	1895-1898
E. D. MEIER.....	1895-1898
NORMAN C. STILES.....	1895-1898
A. WELLS ROBINSON.....	1896-1899
H. S. HAINES.....	1896-1899
G. C. HENNING.....	1896-1899
J. B. STANWOOD.....	1897-1900
H. H. SUPLEE.....	1897-1900
GEO. RICHMOND.....	1897-1900
EDGAR C. FELTON.....	1898-1901
A. M. GOODALE.....	1898-1901
RICHARD H. SOULE.....	1898-1901

Managers (Continued)

FRANCIS H. BOYER.....	1899-1902
JOHN A. BRASHEAR.....	1899-1902
ALFRED H. RAYNAL.....	1899-1902
W. F. M. GOSS.....	1900-1903
D. S. JACOBUS.....	1900-1903
DE COURCY MAY.....	1900-1903
CHARLES H. CORBETT.....	1901-1904
H. A. GILLIS.....	1901-1904
R. S. MOORE.....	1901-1904
ROBT. C. MCKINNEY.....	1902-1905
NEWELL SANDERS.....	1902-1905
S. S. WEBBER.....	1902-1905
JOHN W. LIEB, JR.....	1903-1906
ASA M. MATTICE.....	1903-1906
GEO. I. ROCKWOOD.....	1903-1906
GEORGE M. BRILL.....	1904-1907
FRED J. MILLER.....	1904-1907
RICHARD H. RICE.....	1904-1907
WALTER LAIDLAW.....	1905-1908
FRED M. PRESCOTT.....	1905-1908
FRANK G. TALLMAN.....	1905-1908
G. M. BASFORD.....	1906-1909
ANDREW J. CALDWELL.....	1906-1909
ANDREW L. RIKER.....	1906-1909

TREASURERS

LYCURGUS B. MOORE.....	April, 1880—December, 1881
CHAS. W. COPELAND.....	December, 1881—November, 1884

SECRETARIES

SAML. S. WEBBER, JR.....	Secretary, organization meeting, 1880
LYCURGUS B. MOORE.....	Acting Secretary, April—November, 1880
THOS. WHITESIDE RAE.....	November, 1880—March, 1883
F. R. HUTTON.....	1883-1906

CALENDAR OF PAST MEETINGS

Place	Date	No.	Class of Meeting	Members Present
New York, N. Y.....	Feb. 16, 1880.....		Preliminary...	
Hoboken, N. J.....	April 7, 1880.....		Organization.	
New York, N. Y.....	Nov. 4 to 5, 1880.....	1	1st Annual.....	84
Hartford, Conn.....	May 4 to 6, 1881.....	2	Regular.....	36
Altoona, Pa.....	Aug. 10 to 12, 1881.....	3	Regular.....	37
New York, N. Y.....	Nov. 3 to 4, 1881.....	4	2d Annual.....	65
Philadelphia, Pa.....	April 19 to 21, 1882.....	5	Regular.....	96
New York, N. Y.....	Nov. 1 to 3, 1882.....	6	3d Annual.....	58
Cleveland, Ohio.....	June 12 to 14, 1883.....	7	Regular.....	77
New York, N. Y.....	Oct. 31 to Nov. 3, 1883.....	8	4th Annual.....	131
Pittsburg, Pa.....	May 20 to 23, 1884.....	9	Regular.....	93
New York, N. Y.....	Nov. 5 to 7, 1884.....	10	5th Annual.....	129
Atlantic City, N. J.....	May 26 to 29, 1885.....	11	Regular.....	71
Boston, Mass.....	Nov. 10 to 13, 1885.....	12	6th Annual.....	130
Chicago, Ill.....	May 25 to 28, 1886.....	13	Regular.....	121
New York, N. Y.....	Nov. 30 to Dec. 3, 1886.....	14	7th Annual.....	192
Washington, D. C.....	May 31 to June 3, 1887.....	15	Regular.....	117
Philadelphia, Pa.....	Nov. 28 to Dec. 1, 1887.....	16	8th Annual.....	216
Nashville, Tenn.....	May 8 to 12, 1888.....	17	Regular.....	58
Scranton, Pa.....	Oct. 15 to 18, 1888.....	18	9th Annual.....	124
Erie, Pa.....	May 14 to 17, 1889.....	19	Regular.....	83
New York, N. Y.....	Nov. 18 to 22, 1889.....	20	10th Annual.....	249
Cincinnati, O.....	May 13 to 16, 1890.....	21	Regular.....	164
Richmond, Va.....	Nov. 11 to 14, 1890.....	22	11th Annual.....	126
Providence, R. I.....	June 16 to 19, 1891.....	23	Regular.....	279
New York, N. Y.....	Nov. 16 to 19, 1891.....	24	12th Annual.....	298
San Francisco, Cal.....	May 16 to 19, 1892.....	25	Regular.....	54
New York, N. Y.....	Nov. 29 to Dec. 2, 1892.....	26	13th Annual.....	294
Chicago, Ill.....	July 31 to Aug. 5, 1893.....	27	Regular.....	283
New York, N. Y.....	Dec. 4 to 8, 1893.....	28	14th Annual.....	268
Montreal, Canada.....	June 5 to 8, 1894.....	29	Regular.....	133
New York, N. Y.....	Dec. 3 to 7, 1894.....	30	15th Annual.....	383
Detroit, Mich.....	June 25 to 28, 1895.....	31	Regular.....	132
New York, N. Y.....	Dec. 2 to 6, 1895.....	32	16th Annual.....	346
St. Louis, Mo.....	May 19 to 22, 1896.....	33	Regular.....	92
New York, N. Y.....	Dec. 1 to 4, 1896.....	34	17th Annual.....	391
Hartford, Conn.....	May 25 to 28, 1897.....	35	Regular.....	205
New York, N. Y.....	Nov. 30 to Dec. 3, 1897.....	36	18th Annual.....	378
Niagara Falls, N. Y.....	May 31 to June 3, 1898.....	37	Regular.....	137
New York, N. Y.....	Nov. 29 to Dec. 2, 1898.....	38	19th Annual.....	351
Washington, D. C.....	May 9 to 12, 1899.....	39	Regular.....	274
New York, N. Y.....	Dec. 5 to 8, 1899.....	40	20th Annual.....	469
Cincinnati, O.....	May 15 to 18, 1900.....	41	Regular.....	144
New York, N. Y.....	Dec. 4 to 7, 1900.....	42	21st Annual.....	467
Milwaukee, Wis.....	May 28 to 31, 1901.....	43	Regular.....	156
New York, N. Y.....	Dec. 3 to 6, 1901.....	44	22d Annual.....	519
Boston, Mass.....	May 27 to 30, 1902.....	45	Regular.....	375
New York, N. Y.....	Dec. 2 to 5, 1902.....	46	23d Annual.....	474
Saratoga, N. Y.....	June 23 to 26, 1903.....	47	Regular.....	315
New York, N. Y.....	Dec. 1 to 4, 1903.....	48	24th Annual.....	538
Chicago, Ill.....	May 31 to June 4, 1904.....	49	Regular.....	350
New York, N. Y.....	Dec. 6 to 9, 1904.....	50	25th Annual.....	542
Scranton, Pa.....	June 6 to 9, 1905.....	51	Regular.....	121
New York, N. Y.....	Dec. 5 to 8, 1905.....	52	26th Annual.....	784
Chattanooga, Tenn.....	May 1 to 4, 1906.....	53	Regular.....	212
New York, N. Y.....	Dec. 4 to 7, 1906.....	54	27th Annual.....	735
Indianapolis, Ind.....	May 28 to 31, 1907.....	55	Regular.....	296
New York, N. Y.....	Dec. 3 to 6, 1907.....	56	28th Annual.....	699
Detroit, Mich.....	June 23 to 26, 1908.....	57	Regular.....	269
New York, N. Y.....	Dec. 1 to 4, 1908.....	58	29th Annual.....	738
Washington, D. C.....	May 4 to 7, 1909.....	59	Regular.....	276
New York, N. Y.....	Dec. 7 to 10, 1909.....	60	30th Annual.....	628



